

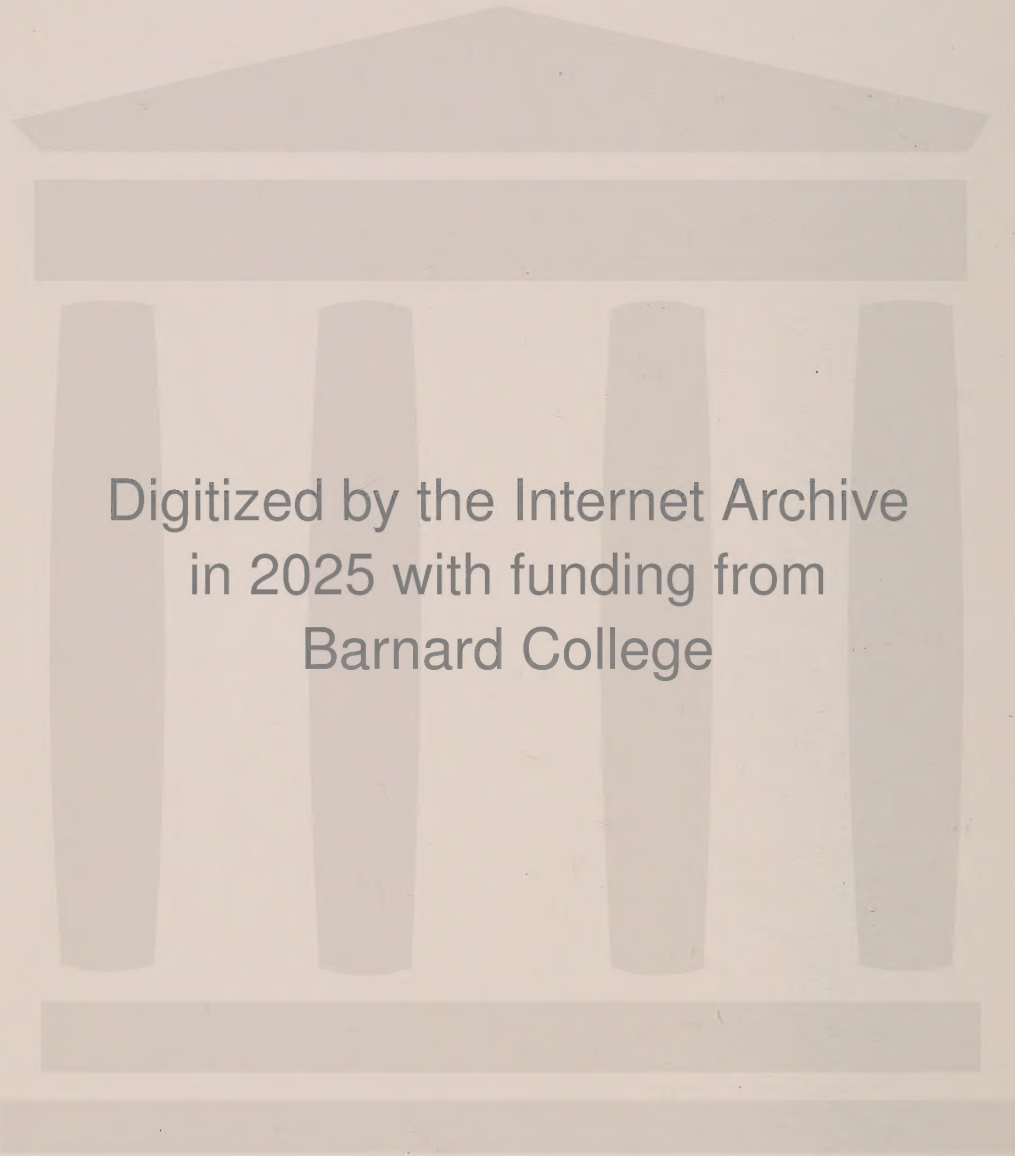


BARNARD COLLEGE



1994 - 95 CATALOGUE





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BARNARD COLLEGE

THE LIBERAL ARTS COLLEGE FOR WOMEN
AFFILIATED WITH COLUMBIA UNIVERSITY

1994-95 CATALOGUE

BARNARD COLLEGE • 3009 BROADWAY • NEW YORK, NY 10027-6598

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COLLEGE CALENDAR 1994-95

AUTUMN TERM — ONE HUNDRED AND SIXTH YEAR

First-year and transfer student registration.....	Sept. 1, 2 (Th, F)
Language Placement Examinations.....	Sept. 2 (F)
Upper-class registration	Sept. 6, 7, 8 (Tu, W, Th)
Classes begin 9 a.m.	Sept. 8 (Th)
Last day to submit work for courses in which grades of I were given in the Spring Term 1994	Sept. 8 (Th)
Deferred examinations for students absent from May 1994 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Sept. 9, 12 (F, M)
Program filing. Last day to file Autumn Term programs 5 p.m.....	Sept. 16 (F)
Last day to add a course	Sept. 16 (F)
Last day to file diploma name cards for the degree in February 1995.....	Oct. 5 (W)
Awarding of October degrees.....	Oct. 19 (W)
Mid-term Date	Oct. 20 (Th)
Election Day holiday	Nov. 8 (Tu)
Major examinations for February graduates.....	Nov. 9-11 (W-F)
Required meetings for planning programs.....	Nov. 10 (Th)
Program planning and sign-up period for all students	Nov. 11-Dec. 1 (Th-Th)
Last day to drop a course	Nov. 17 (Th)
Last day to file requests for Pass/D/Fail grades.....	Nov. 17 (Th)
Thanksgiving holidays	Nov. 24-27 (Th-Sun)
Last day for first-year students and first-semester sophomores to file tentative Spring Term programs with the Registrar	Dec. 1 (Th)
Last day to withdraw from a course	Dec. 8 (Th)
Optional reading day	Dec. 14 (W)
Required reading day	Dec. 15 (Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due	Dec. 13 (Tu)
Last day for payment of bill for Spring Term.....	Dec. 15 (Th)
Mid-year Examinations Begin	Dec. 16 (F)
Autumn Term ends.....	Dec. 23 (F)
Winter recess.....	Dec. 24-Jan. 16, 1995 (Sat-Mon)

SPRING TERM — ONE HUNDRED AND SIXTH YEAR

Deferred examinations for students absent from December 1994 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Jan. 12, 13 (Th, F)
Registration	Jan. 13, 17, 18 (F, Tu, W)
Last day to submit to the Registrar work from Autumn Term 1994 for removal of I	Jan. 13 (F)
Language Placement Examinations	Jan. 13 (F)
Martin Luther King Day holiday	Jan. 16 (M)
Classes begin 9 a.m.	Jan. 17 (Tu)
Program filing. Last day to file Spring Term programs 5 p.m.	Jan. 27 (F)
Last day to add a course	Jan. 27 (F)
Last day to file diploma name cards for the degree in May 1995 or October 1995	Feb. 3 (F)
Awarding of February degrees	Feb. 8 (W)
Last day to submit 1995-96 Senior Scholar applications	Feb. 23 (Th)
Mid-term Date	Mar. 6 (M)
Spring holidays	Mar. 11-19 (Sat-Sun)
Last day to drop a course	Mar. 23 (Th)
Last day to file requests for Pass/D/Fail grades	Mar. 23 (Th)
Major examinations for May and October graduates	Mar. 29-31 (W-F)
Required meetings for planning programs	April 6 (Th)
Program-planning and sign-up period for all students	April 6-28 (Th-F)
Last day to file application for 1995-96 financial aid	April 14 (F)
Last day for sophomores to declare major choices	April 14 (F)
Last day to withdraw from a course	April 27 (Th)
Phi Beta Kappa-Honors Convocation	April 27 (Th)
Last day for first-year students to file tentative Autumn Term programs with the Registrar	April 27 (Th)
Last day to file a request for an Incomplete. In a course where final paper is due on an earlier date, request must be filed no later than the day before the paper is due	May 1 (M)
Required reading period	May 2-4 (Tu-Th)
Final Examinations Begin	May 5 (F)
Spring Term ends	May 12 (F)
Baccalaureate Service	May 14 (Sun)
Presentation of Barnard Degree Candidates	May 16 (Tu)
Conferring of Degrees	May 17 (W)
Last day to file application for deferred examinations in Barnard courses	May 19 (F)
Last day to submit to the Registrar work from Spring Term 1995 for removal of I	June 6 (Tu)
Classes begin 9 a.m.	Sept. 5 (Tu)

CALENDAR

1994

January							February							March							April							
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3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10	
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17	
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21	
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28	
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1995

January							February							March							April							
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13	
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20	
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4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10	
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18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24	
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							30	31																				

DIRECTORY

Information	854-5262
104 Barnard	
Office of Admissions	854-2014
111 Milbank	
Advisers, Class	854-2024
105 Milbank	
Office of Alumnae Affairs	854-2005
224 Milbank	
Barnard Center for Research on Women.....	854-2067
101 Barnard	
Bursar	854-2026
15 Milbank	
Office of Career Services	854-2033
11 Milbank	
Office of College Activities	854-2096
209 McIntosh	
Dean of the Faculty	854-2708
110 Milbank	
Dean of Student Life	854-3095
210 McIntosh	
Dean of Studies	854-2024
105 Milbank	
Dining Services	854-2129
Lower Level Hewitt	
Disability Services	854-4634
7 Milbank	(Voice/TDD)
Financial Aid	854-2154
14 Milbank	
Health Services	854-2091
Lower Level Brooks	
Higher Education Opportunity Program (HEOP)	854-3583
5 Milbank	
Housing Office	854-3040
203/205 Sulzberger	
International Student Advisers	854-2024
105 Milbank	
Study Abroad	854-2024
105 Milbank	
Pre-College Programs	854-8866
8 Milbank	
President's Office	854-2021
109 Milbank	
Registrar	854-2011
107 Milbank	
Security	854-3362
104 Barnard	
Office of Summer Programs	854-8021
203 Sulzberger	
Student Mail	854-2095
McIntosh	
Transfer Student Services	854-2024
105 Milbank	
Transcript Service	854-2011
107 Milbank	
Women's Counseling Project	854-3063
Reid Hall	

THE COLLEGE

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to its hometown of New York City. Barnard is committed to the liberal arts and sciences—a commitment reflected in its curriculum and in the atmosphere of learning and scholarship that permeates its campus.

As a university college in an international city, Barnard offers an education enriched immeasurably by the vast social and cultural resources of New York and the intellectual resources of Columbia, located just across the street.

More than 50 years ago, Virginia C. Gildersleeve, dean of Barnard from 1911-47, said of New York City, “It is a wonderful place in which to run a college...its museums, its theatres, its concert halls, its operas, its government agencies, its business marts, its great public institutions of a hundred kinds...form laboratories and adjuncts to academic halls.” Today the city remains an extension of the campus, used by every department to enhance the relationships of learning to living.

The College seeks women who will benefit most from the Barnard experience: diverse, motivated and curious young women who will draw from its deep well of opportunity and contribute to its stimulating community.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late 19th-century crusade to make higher education available to young women.

The College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that women share in the opportunity for higher education at Columbia. The idea, initially ignored, led to the creation of a “Collegiate Course for Women.” Under the plan, highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was soon abandoned and six years later Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter was secured and Barnard College named in honor of its most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue. Fourteen students enrolled in the School of Arts and 22 “specials,” lacking the entrance requirements in Greek, enrolled in science. There was a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights. In 1890 Barnard was included in the educational system of Columbia University with provisions unique among women's colleges: it was governed by its own Trustees, Faculty and Dean, and was responsible for its own endowment and facilities, while sharing instruction, the library and the degree of the University.

BARNARD TODAY

From the original 14 students, enrollment has grown to 2,100, with over 27,000 Barnard students awarded a degree since 1893. Barnard's faculty of 264 men and women are teacher-scholars whose paramount concern is the education of undergraduate students and whose professional achievements bring added vitality to the classroom.

Barnard's liberal education is broad in scope and demanding. The curriculum includes a series of general education requirements—a program of courses the Faculty believes provides a stimulating and thorough education while remaining flexible and varied enough to suit a student's own interests, strengths and talents. Classes vary in size. Those in which student participation is important are small. There are opportunities for independent

work and students may be invited to work on research projects with faculty members.

In 1988 Barnard College and Columbia University amended and extended the long-standing agreement for cooperation between the institutions. Barnard stands as an independent college for women with its own curriculum, faculty, admissions standards, graduation requirements, trustees, endowment and physical plant. At the same time, Barnard and Columbia share resources, thereby giving students open access to the courses, facilities and libraries of both schools. Barnard and Columbia students also share in a variety of extracurricular activities and social lives.

From its inception Barnard's foremost commitment has been to the academic, personal and professional success of women. Students benefit from an atmosphere in which over half of the tenured faculty are women, and women are well-represented in the administration. The College is led by Judith R. Shapiro, an anthropological scholar and former provost of Bryn Mawr. At Barnard, women are given the opportunities and the freedom to lead both in and out of the classroom, to develop the skills that equip them to lead throughout their lives.

Barnard's unique relationship with Columbia—as well as its ties to several of Columbia's graduate schools and its programs with premier New York City institutions including the Juilliard School, the Manhattan School of Music, the Jewish Theological Seminary of America and Teachers College—gives students an unusual range of educational options. Academic organizations within and beyond the University offer vital opportunities for research, study, studio experience, career internships, and community service.

Barnard has a high student retention rate, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, between one-fourth and one-third of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools, law schools, and business schools. The rest obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.

The Barnard campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings, including the College's newest building, Sulzberger Hall, form an enclosed quadrangle.

Barnard Hall is just north of the "Quad" and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Lehman Computer Center on the first floor; the reference area, periodicals, microforms, and open book stacks on the second floor; and on the third floor, audiovisual facilities and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center face each other across an open plaza. The 14 stories of Altschul Hall are devoted primarily to the sciences and mathematics. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center, as well as student mailboxes, music practice rooms, a bowling alley, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern end of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small, well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

In the immediate neighborhood, Barnard maintains additional residence halls, including Plimpton Hall and Elliott Hall, and 600, 616, and 620 West 116th Street, all apartment buildings. The College also rents additional spaces at 601 West 110th Street.

Columbia University is directly across the street on Broadway.

WOLLMAN LIBRARY AND OTHER LIBRARY RESOURCES

The Wollman Library occupies the first three floors of Adele Lehman Hall. The main collection of more than 160,000 volumes, arranged on open shelves, contains books and microforms selected to support curricular requirements and provide opportunities for independent undergraduate research in many fields. A wide selection of periodicals and journals supplements the book collection. The reading areas contain individual study carrels. The first floor houses a collection of reserve material used in current courses.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of recent works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the resource collection of the Barnard Center for Research on Women. A separate Chemistry Reading Room is located in Altschul Hall.

When the College is in session the main library is open seven days a week providing a full range of services. The Reference Department offers an instruction program to help each student develop efficient library skills. In addition to the standard printed research materials, the library provides many electronic information sources. Ten workstations support computerized periodical indexes and electronic texts such as NEXIS and the CD-

ROM *Oxford English Dictionary*. All items added to the library collection since 1981 are included in Columbia University's on-line catalog.

Barnard students also have access to all Columbia University libraries with more than 6 million books, 3.5 million microforms, and over 58,000 serial and periodical titles, and to the libraries of Teachers College and Union Theological Seminary. In addition, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.

COMPUTING AND NETWORK SYSTEMS

The Office of Computing and Network Systems (CANS) provides three computer centers for student and faculty use. The Brooks Computer Center (BCC), located in 124 Brooks Hall houses DOS-based computers and is equipped with a laser printer. The Lehman Computer Center (LCC), located in 112 Lehman Hall, houses DOS-based and Macintosh computers and is equipped with dot-matrix and laser printers. Student consultants are available to assist with any questions or problems that may arise. The Sulzberger Computer Center (SCC), located in Room 5 of Sulzberger Hall, houses DOS-based computers and is equipped with both dot-matrix and laser printers. All computers in the CANS computer centers are connected to the Barnard computer network which provides access to a wide variety of software applications including electronic mail and word processing as well as access to ColumbiaNet and the Internet community.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women, located in 101 Barnard Hall, was founded in 1971 to express Barnard's longtime commitment to women and to show Barnard's enthusiasm for the new women's movement. Today, the Center is a nationally recognized research institute that extends its resources to all members of the Barnard community as well as to the public.

Through a wide range of programs, conferences, lectures, and seminars, the Center generates and publicizes advanced research in feminist scholarship and attracts to Barnard outstanding women in public life.

The series *Speaking of Women...* each week brings Barnard faculty, outside scholars, and activists to the Center for informal discussions on a wide range of women's issues. The Reid Lectureship features a series of talks and seminars by distinguished women in public life and the arts who have shown a significant commitment to improving the lives of all women. The Scholar and the Feminist, a day-long, annual conference, addresses the conjuncture of feminist scholarship and activism in women's issues. To provide the results of the research and experience presented in the Center's conferences and lectures, the Center publishes *The Barnard Occasional Papers on Women's Issues*.

The Center's collection and reading room are an important resource for members of the Barnard community and for the general public. Students regularly use the Center as a meeting place, as do faculty and staff.

The collection contains thousands of books concerning women and gender, and subscribes to over one hundred feminist periodicals. Collections of published articles, unpublished articles, newspaper clippings, special newsletters and reports, information on local, national, and international women's organizations, information about interships, and materials about women's studies programs throughout the country round out the collection.

STUDENT LIFE

Barnard students soon discover that their classmates are among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents of nearly every state and some 50 foreign countries as well as those who live within commuting distance. Diversity is one of the few generalizations that can be made safely about Barnard students; a mingling of economic, regional, ethnic, and cultural groups is evident in campus life. Nine out of 10 students live in college housing and participate in the educational programs, cultural events and social activities of their residence halls.

STUDENT GOVERNMENT AND CAMPUS ORGANIZATIONS

Student participation in the governance of the College and in shaping student life on campus is a time-honored tradition at Barnard. College committees, on which students, faculty, and administrators serve, recommend policy and procedural changes in such areas as curriculum, housing, and college activities. Students are the majority members on Honor Board and Judicial Council. Two students serve as representatives to the Board of Trustees.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, more than 80 in all, include theatre and vocal music groups, ethnic organizations, language clubs, community service groups, and yearbook and literary magazine staffs. The student newspaper, *Barnard Bulletin*, is published weekly. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, and social events.

Student activities emanate from McIntosh Student Center, which houses the offices of College Activities, Student Life, the Student Government Association, and other clubs and organizations. The Center also includes the student mail room, a snack bar, the commuter lounge, music practice rooms, darkroom, computer publications room, pottery studio, bowling alley, radio station, and the student store. The McIntosh Ticket Booth offers students the opportunity to attend professional dance, theatre, opera, and sports in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lectures and performances during the school year.

In the residence halls, student Hall Councils elected by the residents, plan social events and establish certain policies and procedures for use of public spaces and rules of conduct for residents, other members of the community and guests.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all Barnard students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities for students, faculty, and staff to experience together the cultural, political, and social life of the city.

SPORTS AND ATHLETICS

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors 11 women's varsity teams including Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming and Diving, Tennis, Indoor and Outdoor Track and Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at Barnard College along with women enrolled at the undergraduate divisions of Columbia University have the opportunity to compete

on all university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition.

For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals, recreation, and club sports. The program features basketball, indoor soccer, volleyball, open gym time, recreational swimming, sports clubs, open weight room hours, and special events.

Barnard facilities include a swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall, and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center includes the Levien Gymnasium with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; and locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium, with an eight-lane, all-weather, NCAA-regulation running track, and practice fields. There are seven composition tennis courts and a modern tennis clubhouse, facilities for crew, and a spacious field house.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members, advised by the Dean of Studies. The Judicial Council of undergraduates, faculty, and administrators recommends disciplinary action for non-academic offenses and acts on appeals of academic disciplinary sanctions determined by the Honor Board. Hall Councils comprising students recommend disciplinary action for violation of residence hall rules. A more complete explanation of the system may be found in the *College Calendar and Student Handbook*.

Each student who registers at Barnard agrees to maintain the Honor Code, which states:

We, the students of Barnard College, resolve to uphold the honor of the College by refraining from every form of dishonesty in our academic life. We consider it dishonest to ask for, give, or receive help in examinations or quizzes, or to use any papers or books not authorized by the instructor, or to present oral or written work that is not entirely our own, except in such a way as may be approved by the instructor. We consider it dishonest to remove without authorization, alter, or deface library and other academic materials. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.

Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct are recommended by student, faculty, and administrative committees to the appropriate administrators, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in the *College Calendar and Student Handbook*.

Enrollment in the College, award of academic credit, and conferral of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and of administration and in College committees.

RESIDENTIAL LIFE

Barnard maintains a diversified residence program. Residence options include traditional residence halls, a variety of suite arrangements, and apartments in College-owned buildings on or adjacent to the campus. In a cooperative exchange with Columbia College and the School of Engineering and Applied Sciences, a number of coeducational arrangements are available. In addition, some students live in independent housing they secure in the campus vicinity. The College offers all incoming first-year students the opportunity to elect to live in campus housing. In all, about 90% of the student body live in College housing, the rest choosing to live off campus. Policies regarding eligibility for housing and manner of assignments are formulated by the College Housing Committee, with a membership of students, faculty, and administrators.

FACILITIES

The College provides in its residence halls supervision under the direction of the Dean of Student Life. This includes directors, graduate and undergraduate student assistants, 24-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, Reid, and Sulzberger Halls, or the “Quad,” at the south end of the campus, are operated as a single complex with space for about 930 students. Sulzberger Hall, opened in 1988, completed this residential complex and provides community amenities as well, including computer rooms and a cafe. Reid Hall and the first eight floors of Sulzberger Hall are all-female buildings housing first-year students who are assigned to double rooms. Brooks and Hewitt are predominantly upper-class traditional residence halls. There are also eight wheelchair-accessible, modified rooms located in Hewitt. The “Tower,” floors nine through 16 of Sulzberger Hall, houses upper-class students in suites with lounges and kitchenettes.

“616” West 116th Street, an apartment-style residence directly across the street from the Quad, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and bath.

“600” and “620” West 116th Street are College-owned buildings comprising a majority of student apartments of one to five single or double rooms with kitchen and bath, and some apartments for community residents.

Elliott Hall, a renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.

Plimpton Hall, an apartment-style residence hall on Amsterdam Avenue and West 121st Street, a short walk from the main campus, but adjacent to Columbia and Teachers College, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath.

ELIGIBILITY

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible, the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies and the Dean of Student Life.
2. A student receives “Resident” classification if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.

3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for campus housing when they enter as first-year students. Rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.

ASSIGNMENTS

Returning upper-class resident students are assigned rooms in College residences on the basis of a lottery and room selection. Rules about eligibility for and priority in the lottery are determined by the Housing Committee. Incoming first-year students, readmitted upper-class students, and transfer students are assigned rooms by the Housing Office.

REQUIREMENTS

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing,” which is given to students selecting College housing and which must be signed by them before they may accept an assignment.

BOARD

The College offers all students meal plans, which include points that may be used in the recently renovated Hewitt cafeteria, McIntosh snack bar and Quad cafe. Meal plans (not points) may also be used at Columbia’s John Jay cafeteria for some meals. All first-year students and most residents of Brooks and Hewitt are required to be on a meal plan for the full academic year.

MARRIED STUDENTS

Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

FINANCIAL AID FOR ROOM AND BOARD

Commuter students do not normally receive financial aid for living and eating in College residences. Only resident students who choose to live in College housing may receive financial aid for room and board. Resident students who decide to live off-campus or commute from home receive reduced aid packages which reflect the costs of a commuter.

ADMISSION

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and standardized test scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard seeks students from diverse educational and cultural backgrounds and from all geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or disability.

FIRST-YEAR APPLICATION PROCEDURES

Students are admitted to the first-year class in September and, in limited numbers, in January. They must be at least 15 years of age.

Application for admission to the first-year class should be made by January 15 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions. Barnard accepts the Common Application in lieu of its own form and gives equal consideration to both. Students may obtain copies of the Common Application from their high schools.

A non-refundable fee of \$45 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

SECONDARY SCHOOL PREPARATION

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

FIRST-YEAR ENTRANCE TESTS

Barnard requires all candidates to take the College Board's Scholastic Assessment Test (SAT I) and three Achievement Tests (SAT II: Subject Tests), one of which must be in English composition or literature. The ACT can be substituted for the SAT I and Achievement Tests (SAT II). We recommend that students take these standardized tests by the fall of their senior year. As early as possible, candidates should write directly to the College Board, Box 592, Princeton, NJ 08450 or the American College Testing Program, Box 168, Iowa City, IA 52240 for the Bulletin of Information containing descriptions of the tests, directions for filing applications, the dates on which examinations are adminis-

tered, and a list of examination centers. Dates vary from year to year and applications to take the test must be received by the CB and ACT well in advance of the test. Students who require nonstandard administration of the tests should consult with their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board or American College Testing Program to send official test scores to the Office of Admissions. The CB code number for Barnard is 2038. The ACT code number for Barnard is 2718.

Another important part of the application is the submission of three recommendations, one from the high school counselor and two from academic teachers of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

INTERVIEWS

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions. Appointments are scheduled Monday through Friday from 9:30 A.M. to 12:00 P.M. and from 1:00 to 4:00 P.M., and on selected Saturday mornings. Applicants who are unable to visit the College may request an interview with a local Barnard Alumnae Admissions Representative (BAAR) by returning the Alumna Interview Request Card that is included with the application.

EARLY DECISION

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the **Fall Early Decision Plan**, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the **Winter Early Decision Plan**, a candidate should submit a completed application, with all supporting credentials, by January 2 for notification of the Committee's decision no later than February 2. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the first-year class, an Early Decision student must submit a non-refundable enrollment deposit following her decision to enroll. This deposit is applied toward tuition and fees for the first year.

The same criteria are used in the evaluation of applicants under both the Fall and Winter Early Decision Plans. The Committee on Admissions may choose to postpone a decision on an EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year. Candidates admitted under the Early Decision Plan are obligated to attend Barnard and will not be allowed to defer their admission.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

ADMISSION

The Program is limited to 15 students in any single class, approximately eight to ten to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of a first-year student to the Program is based on the Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement, standardized test scores, and evidence of advanced preparation. Consideration of an enrolled freshman or sophomore requires recommendations of faculty members.

Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests. For further information about the Centennial Scholars Program, see page 39.

DEFERRED ENROLLMENT

An admitted first-year or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Students admitted under the Early Decision Plan can not defer their admission.

INTERNATIONAL STUDENTS

Barnard welcomes applications from international students. These students are expected to follow the same application procedure and present the same credentials as other candidates.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. After enrolling at Barnard, international students receive assistance with academic placement from the International Student Adviser in the Office of the Dean of Studies.

TRANSFER STUDENTS

Barnard welcomes transfer students in the sophomore and junior classes of each year. Applications for admission in September will be reviewed according to the following schedule:

Deadline	Notification
March 1	April 15
April 1	May 15
May 1	June 15

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT or ACT, and, if appropriate, the TOEFL, the official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked. Three recommendations are also required: one each from the high school counselor, a college faculty member and a college dean or adviser.

A strong record at an accredited college, university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 26.

VISITING STUDENTS

Qualified students who are degree candidates at other colleges may apply for admission as visiting students for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

READMISSION

Barnard students who have not been registered for one or two terms may request readmission by writing the Dean of Studies by November 1 for the Spring term and by April 1 for the Autumn term. Students who left the College in good standing are normally granted readmission. A non-refundable fee of \$100 must accompany each application for readmission.

RESUMED EDUCATION PROGRAM

Former Barnard students who wish to return to the College after an absence of five years or more to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Assistant Dean for Resumed Education Students in the Office of the Dean of Studies.

ADMISSION WITH ADVANCED PLACEMENT

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement (AP) scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) may be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	Exemption from ARH BC 1001
Biological Sciences	4 or 5	3 pts.	(4.5 pts. with review of lab notes) and exemption from BIO BC 1001
Chemistry	4 or 5	3 pts.	Exemption from Quantitative Reasoning (5 pts. with review of lab notes) and exemption from CHE BC 1601
Computer Science	4 or 5	3 pts.	Exemption from CSC W 1003
Economics	4 or 5	3 pts.	Exemption from either ECO BC 1001 or 1002
English	4 or 5	3 pts.	Exemption
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption
History	5	6 pts.	
	4	3 pts.	

ADMISSION

Mathematics				
Calculus AB	4	3 pts.	Exemption from Quantitative Reasoning and placement in IIA. If student takes and passes the placement test for IIS, she will receive 4 pts. of AP credit and may continue in IIS.	
Calculus AB	5	4 pts.	Exemption from Quantitative Reasoning and placement in IIS.	
Calculus BC	4 or 5	4 pts.	Exemption from Quantitative Reasoning and placement in IIS. Students may not begin with IIA. If a student takes IIA, rather than IIS, she will receive only 3 pts. AP credit.	
Music	4 or 5	3 pts.		
Physics	4 or 5	3 pts.	Exemption from Quantitative Reasoning (4 pts. with review of lab notes) and one term of two-term physics sequence.	
Political Science	4 or 5	3 pts.	No credit toward the major.	
Psychology	4 or 5	3 pts.	Exemption from PSY BC 1001.	

No credit will be granted for a college course equivalent to the AP course for which AP credit has been awarded.

OTHER DEGREE CREDIT

Students who have satisfactorily completed college courses before entering Barnard as first-year students may apply for a maximum of 15 points of degree credit. The courses must be intended primarily for college students and taught at the college by members of its faculty. With the exception of the aforementioned Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree.

FINANCIAL INFORMATION

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

SCHEDULE OF ANNUAL TUITION AND FEES

The following tuition and fees are required from all students for the Academic Year 1994-95 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	\$17,926
Partial program (1-11 1/2 points)	598 (<i>per point</i>)
Excess program (over 18 points)	598 (<i>per point</i>)
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	
Comprehensive Fee	720
<i>(includes Student Health Service Charges and Student Activity Charges)</i>	

The following fees are required from all students occupying college housing facilities for the Academic Year 1994-95.

Residence charges

Brooks, Hewitt, Reid and Sulzberger Hall ring floors (*board required— see below*)

All college housing	
<i>Single occupancy</i>	\$5,372
<i>Multiple occupancy</i>	4,786

Board charges — Required of all those living in Reid and Sulzberger Hall ring floors and of most living in Brooks and Hewitt:

19 Plus Plan—19 meals per week (50 pts.)—minimum requirement for all first-year students in Barnard housing	\$3,338
14 Plus Plan—14 meals per week (170 pts.)	2,996
10 Plus Plan—10 meals per week (110 pts.)	2,764
7 Plus Plan—7 meals per week (220 pts.)	2,764

A drop or change of meal plan will not be accepted after the second Friday of each semester. A \$50 fee will be assessed for dropping or changing any current meal plan after the beginning and before the second Friday of the semester.

Other fees — Required if applicable

Readmission fee	\$100
Registration in absentia (per semester)	200
Physical education—part-time students (per course)	598
Orientation fee—all first-year and transfers entering in the	
<i>Autumn Term</i>	150
<i>Spring Term</i>	50

FINANCIAL INFORMATION

Overseas Program fee (<i>Reid Hall, Barnard Option, Kyoto Program</i>) (per semester)	\$75
Senior fee—all graduating seniors	100
Course fee (<i>per semester</i>)	
French	10
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30
Laboratory fees (<i>per laboratory course</i>)	
Biological Sciences	40
Chemistry—General	28
Chemistry—Other	35
Biochemistry	45
Environmental Science	30
Physics	25
Psychology	20
Study Leave fee (<i>per semester</i>)	200
Summer Credit Processing fee (<i>except CU summer session</i>)	50

PAYMENT OF CHARGES AND FEES

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn term tuition is due August 1. The Spring term tuition is due December 15. Payments received after these dates are subject to a late processing fee of \$75. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes a late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 or December 15, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

All charges and fees are subject to change at any time at the discretion of the Board of Trustees.

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College and should be made out for the exact amount of the payment due. A fee will be assessed for checks returned unpaid.

DEPOSITS

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a non-refundable tuition deposit of \$200 on or before May 6. An applicant for admission must pay a \$200 non-refundable tuition deposit upon acceptance of the offer of admission to Barnard College. New students also requesting college housing must submit a non-refundable housing deposit of \$200 by May 6.

All returning resident students must pay a \$200 housing deposit in person or by proxy prior to the spring housing lottery during the time period designated by the Housing Office. Students who are not eligible to participate in the spring housing lottery but wish to live in college housing must submit a \$200 housing deposit with their wait list application for college housing to the Housing office. Housing deposit credits will be given as follows: full credit if a room is not selected in the spring housing lottery; credit of \$100 if a room is selected in the spring housing lottery or assigned by the Housing office but canceled in writing by July 1. No credit is given if a room is selected in the spring housing lottery or assigned by the Housing office and canceled after July 1, except that a student who files an approved study leave form for the Autumn or Spring term and cancels her housing assignment immediately upon such approval will receive credit for her deposit.

DEFERRED PAYMENT

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in finance programs offered by Chemical Bank, tuition plans offered by Knight Insurance Agency, Inc., and the payment plan of Academic Management Services, Inc. Information can be obtained from the Bursar.

ADJUSTMENT OF TUITION FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the alteration in her program is made by September 16 (last day of program filing) in the Autumn Term and by January 27 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

CREDITS FOR WITHDRAWAL

If a student withdraws during the College year, both the tuition deposit and the housing deposit are subject to forfeit. Withdrawal credits will be calculated from the last day of attendance. However, charges will be assessed by the College for housing and dining services used after the official date of withdrawal.

Credit percentages (withdrawal during the week of the term):

1st week	90%
2nd week	80
3rd week	80
4th week	70
5th week	60
6th week	60
7th week	50
8th week	40
9th week	40
After the 9th week	0

Items not subject to the credit calculation include:

- Lab fees
- Related course fees
- Medical insurance
- Academic computer fees
- Orientation fees
- Late payment or processing fees

FINANCIAL INFORMATION

- Dorm use fines
- Finance charges
- Non-refundable deposits to ensure matriculation or housing space.

Students will not be eligible for a refund until all Title IV funds and other scholarships, as required, are reimbursed, and any outstanding balances with the College are cleared.

In the event of withdrawal from housing while still enrolled in the College, a student will forfeit 80% of housing charges during the first two weeks of classes. Thereafter, the entire amount for the semester will be forfeited.

SAFEKEEPING OF STUDENTS' FUNDS

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler's checks. To cover immediate expenses, a student should have traveler's checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

FINANCIAL AID

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin, or disability.

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e., gifts, endowment, and general income, Barnard participates in the following Federal programs: the Federal Pell Grant program, the Federal Supplemental Educational Opportunity Grant program, the National Science Scholars Program, the Federal Perkins Loan program, the Federal Family Education Loan Program, and the Federal College Work Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and State funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above-mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks, insurance companies, and the SHARE loan program.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.

ACADEMIC ADVISING

Academic advising is coordinated by the Office of the Dean of Studies (105 Milbank), which oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 32) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions about the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard Faculty.

CLASS DEANS AND ADVISERS

Prior to her matriculation, each entering first-year student will receive a program form and the program guide from the First-Year Class Dean. The student selects courses for the Autumn Term and returns the completed program form to the Class Dean for first-year students who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Class Dean also assists the Dean of Studies in coordinating the academic advising of first-year students, participates in planning for first-year orientation with the help of a committee of upperclass students, and oversees other special programs for first-year students.

Assistance in planning courses of study is given to first-year students and sophomores by their academic advisers. Group meetings with advisers are scheduled during orientation; students are expected to schedule appointments for individual advising throughout the year. Group meetings with department chairs and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with her Class Dean, her adviser, the academic department, and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance is her Class Dean.

While it is the student's responsibility to complete all degree requirements, the Registrar reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn Term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean oversees the planning for commencement with the help of class officers and the Commencement Committee.

TRANSFER ADVISERS

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled late in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

INTERNATIONAL STUDENT ADVISER

Advice on situations arising from international student status is available in the Office of the Dean of Studies from the dean designated to counsel international students.

VISITING STUDENTS

Students who enroll for classes at Barnard as visitors who will graduate from another college must have approval from the degree-granting school for course work to be completed at Barnard. Program filing and registration are guided by a designated dean in the Office of the Dean of Studies.

STUDY LEAVES

Students who wish to study for credit toward the Barnard degree at another accredited college, whether it be abroad or in the United States, are to apply for approval from the appropriate dean in the Office of the Dean of Studies early in the semester before the period of enrollment at the other institution. Information and forms are available at 105 Milbank.

PRE-PROFESSIONAL ADVISING

Students who are interested in post-baccalaureate professional training may consult the appropriate pre-professional dean in the Office of the Dean of Studies for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, journalism, or business. The pre-professional assistant maintains recommendation files and forwards materials required for applications. (See page 30.)

GRADUATE SCHOOL ADVISING

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult faculty members in appropriate departments and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the assistant for graduate school recommendations in the Office of the Dean of Studies.

RESUMED EDUCATION

For advice on academic study and college services for students returning to Barnard after absences of five years or more to complete the A.B. degree, or for graduates redirecting their careers and exploring new interests, please consult the appropriate dean in the Office of the Dean of Studies.

STUDENT SERVICES

OFFICE OF CAREER SERVICES

The Office of Career Services helps students and alumnae explore, define and implement career plans. To provide this service the office has developed programs enabling Barnard women to gain work experience and to become informed about different career opportunities. Both students and alumnae are seen for individual career counseling, and group workshops are given on careers and related concerns. The Career Services Internship Program provides semester and summer offerings useful for students to clarify their vocational interests through valuable and often professional-level experience. A newsletter informs students about career programs, workshops, internships and special opportunities.

To aid students and alumnae in exploring career areas the Office maintains a Contact File, which lists alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resumé writing and interviewing skills, are conducted when the College is in session. Students and alumnae may establish permanent recommendation files in the office for future employment.

The Office of Career Services, which is open twelve months a year, has contacts with many potential employers who post full- and part-time jobs. The Federal College Work Study Program is also administered by this office. Students use part-time and temporary job listings for both on- and off-campus jobs. *The Jobseekers Newsletter*, which highlights full-time job opportunities, is issued every two weeks and is mailed to alumnae who request it. During the spring semester, seniors are interviewed on campus by corporate and large non-profit organizations offering entry-level professional opportunities through the Recruitment Program.

The Barnard Babysitting Service, Barnard Bartending Service, and the Barnard Student Store are student-run services supervised by the office. They provide excellent managerial experience and create jobs for many students.

PROGRAM FOR STUDENTS WITH DISABILITIES

In 1978, Barnard established a program to provide services for students with disabilities which enhance their educational, pre-professional, and personal development. The Office for Disability Services (ODS) serves students with visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions, learning disabilities, and psychiatric/emotional disabilities. The ODS works with other administrators and members of the faculty to assist students with disabilities in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. ODS publications include the *Barnard College Policy on the Admission of Students with Disabilities* and a services brochure *What ODS Can Do for You*. The 504 Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College. The Barnard LD Network offers outreach, peer support, and referral to students with learning disabilities; the BAID Network (Barnard Alumnae Involved with Disabilities) provides students with access to disabled alumnae in a broad range of careers.

The buildings on the contiguous campus interconnect and are wheelchair accessible. Maps of the campus showing special features and access routes are available at the Office for Disability Services.

STUDENT SERVICES

STUDENT HEALTH SERVICES

Student Health Services provides primary health care and gynecological services as well as specialty consultation for all registered Barnard students. They also support a variety of peer education programs and other activities related to women's health, wellness, and other significant health issues. The medical staff consists of full-time and part-time physicians and nurses experienced in college health and women's health care practice, and a part-time gynecologist. The Mental Health Service is staffed by psychiatrists, clinical psychologists and clinical social workers. Advanced trainees in a number of clinical disciplines work at Barnard on a yearly basis. Entering students must submit medical history and physical forms, which become the basis of the medical chart.

Both the Health Services and the Mental Health Services are available to all Barnard students and are covered by the Comprehensive Fee. The Barnard Health Services close during college vacations and holidays, when Barnard students may use the Columbia University Health Services. A physician is on call nights and weekends when the College is in session and during winter and spring break for after-hours emergencies.

All Barnard students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

1) hospitalization for illness or accident; 2) laboratory tests and x-rays; 3) consultations. The following services are **not** covered: 1) home visits; 2) consultations when the College is not in session; 3) dental care (except for treatment of injury to sound natural teeth); 4) on-going treatment by outside physicians or other practitioners.

For additional information, students are encouraged to consult *Barnard Health Service*, *A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Services.

RESIDENT ASSISTANTS

As part of the student support network, upper-class students in each residence hall are designated as **Resident Assistants** to be a campus resource for resident students, to provide liaison with and referrals to other services, and to aid in residential programming.

SERVICES FOR COMMUTERS

The Office of Student Life provides information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations, and supports educational, cultural, and social programs designed to enrich commuter life. The Skip-Stop Express is the student-run organization sponsoring events and support services for commuters. It has an office in McIntosh Student Center across from the Commuter Lounge.

RECOMMENDATIONS

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, and for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

STUDENT RECORDS AND INFORMATION

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *College Calendar and Student Handbook*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public,

at its discretion and without prior authorization from the student, the following information: name, class, home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

THE CURRICULUM

REQUIREMENTS FOR THE A.B. DEGREE

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. All students must complete a major and must fulfill general education requirements.

MAJOR REQUIREMENTS

All students must complete the requirements of an approved major. The number of required courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six semester courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the *Barnard Catalogue*. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairs of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the double major that comprises all the course requirements of two majors with one integrating senior project, but the form designated for such a double major must be filed with the Registrar and the two departments.

GENERAL EDUCATION REQUIREMENTS

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements follow.

FIRST-YEAR SEMINAR

First-year students are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of First-Year Seminars, with descriptions and the names of instructors, begins on page 150. Transfers are not required to take the First-Year Seminar.

FIRST-YEAR ENGLISH

First-year students must take the one-semester writing course ENG BC 1201 (First-Year English), designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course with an Advanced Placement (AP) test score of 4 or 5.

International students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take this course but must have earned exemption or completed an equivalent course before graduation.

FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin V1201 and V1202 or their equivalents must be completed.) The faculty recommends that in general (i) the intermediate year be completed at Barnard; (ii) elementary courses be completed in the first year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required, for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. Completion of Spanish BC 1208x for Spanish-speaking students (taken only with the instructor's permission) will qualify on recommendation of the instructor.
2. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fulfillment.
3. Enrolled students who wish to qualify in German are advised to take German BC 1204 at Barnard, or they will otherwise be required to take the German Department's placement examination on completion of the other-college course.

Exemptions:

1. CEEB Achievement score of 750 or higher; CEEB score of 700 or higher in Hebrew only.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is not English (e.g., French, for alumnae of the Lycée Français).
5. For international students for whom English was not the primary language of instruction in high school, satisfactory completion of English BC 1201 or one satisfactory year at Barnard.

Placement:

1. CEEB Achievement score of 650-749, fourth semester; 550-649, third semester; 400-549, second semester; below 400, first semester, for French, Spanish, and German. In other languages, placement will be determined by departmentally administered examinations.
2. For transfer students: the course following the level of the last satisfactorily completed semester course; however, formal withdrawal and reenrollment in a more suitable course may be required for students who are judged by the department to be inappropriately placed and in need of additional preparation or review. In such a case, transfer credit for the previous course is rescinded to allow the student to receive credit for the Barnard/Columbia course of equivalent level.
3. By departmental examination, if there is no CEEB score or previous college transfer work.

Credit:

- 1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
- 2. No prior assurance of degree credit is given for summer or transfer work in foreign language courses. For work completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.
- 3. No credit is granted for work equivalent to a level already completed and credited.
- 4. Although credit for the first semester of an elementary language is not normally granted unless a more advanced course is completed, a student is granted **one** exception maximum to this rule on written request to the Registrar.

LABORATORY SCIENCE

Students must complete one year of science (two semesters), with laboratory, in the same field. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy	AST V 1753-1754 or AST C 1403-1404, both with the lab AST C 1903-1904
Biology	BC 1001-1002, 2001, 2002, 2003, 2004
Chemistry	BC 1601 and BC 1602 BC 1601 and BC 3230 with BC 3328 C 1403-C 1404 with C 1500 and one additional laboratory course, e.g., BC 1702, BC 3328, or BC 3338.
Environmental Science	BC 1001, BC 1002, GEY V 1001, 1011-1012, GEY S 1021D- 1022Q (CU Summer)
Physics	BC 1206-1208, V 1003-1004, C 1021-1022, F 1003-1004, V 1103-1104, V 1305-1306, W 1003-1004, C1001, 1002 with BC 1091-1092
Psychology	BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, BC 1156 (any two from different groups: see Major Requirements)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with the appropriate department chair for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard *before registering for any of the courses listed below that satisfy the Quantitative Reasoning Requirement*. Basic Math Skills topics are arithmetic (including fractions, decimals, and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate students must pass one of the courses listed below in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed below or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

Astronomy	V 1753, V1754, C 1403-1404
Biology	BC 3386
Chemistry	BC 1601, C 1403, C 1404
Computer Science	Any course carrying degree credit <i>except</i> W 1001 CU Summer S1021D, S1022Q.
Economics	BC 2411
Environmental Science	BC 3015 and BC 3016 (Both courses must be taken.)
Mathematics	-Any course carrying degree credit.
Philosophy	V 3411, V 3415 (F 3410 does not fulfill the requirement.)
Physics	Any course carrying degree credit
Political Science	BC 3345
Psychology	BC 1101
Quantitative Reasoning	All courses carrying degree credit <i>except</i> BC 1001
Sociology	V 3212
Statistics	Any course carrying degree credit

DISTRIBUTION

Note: It is possible to satisfy both Part A and Part B of the distribution requirement with the same courses, but all students must take two courses in the Humanities and two in the Social Sciences.

Part A:

Students must complete four one-semester courses outside the major, two in the Humanities and two in the Social Sciences. In each of these areas, only one of the two courses may be interdisciplinary.

The distribution requirement in the Humanities may be fulfilled by courses in Art History, Philosophy, Religion, Medieval and Renaissance Studies, any literature, the history or literature of music, the history of dance or theatre, Humanities C 1001 or C 1002, and by designated courses in Asian and Middle Eastern Cultures or Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by courses in History, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology, Contemporary Civilization C 1101 or C 1102, and by designated courses in Asian and Middle Eastern Cultures, Urban Affairs, or Women's Studies.

Part B (effective 1993-94 for the First-Year Class and for succeeding classes):

Students must complete four one-semester courses (transfers must complete three) chosen from the three categories listed below, with no more than two courses from any one category.

- I. Comparative Studies of Culture and Society
- II. Societies and Cultures of Asia, the Pacific, Africa, or the Middle East
- III. Societies and Cultures of Europe or the Americas

Courses taken for Distribution - Part B may also qualify to fulfill Distribution - Part A. Courses that qualify for the major or a minor may also qualify for Distribution - Part B.

Courses satisfying Part A are identified in this catalogue by the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. Courses satisfying Part B are identified by the Roman numeral I, II, or III (corresponding to one of the three categories listed above) on the last line of the course description. When a course satisfies both Part A and Part B, its description will be accompanied by both the letter H or S and the Roman numeral I, II, or III.

PHYSICAL EDUCATION

Students admitted as first-year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be successfully completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation. Studio Dance Courses may be taken to fulfill the Physical Education requirement.

ELECTIVES

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser.

No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. Of these, a maximum of four arts studio courses may be credited. A student who takes more than two is required to validate each additional studio course with a course in art history. A maximum of six courses in instrumental instruction may be credited (except for Music majors and minors, who may take eight) and a student who takes more than two is required to validate each of the third and the fourth courses of music lessons with a course in music theory, history, or literature. See page 194.

One-point dance technique courses taken by non-dance majors for credit are also included in the existing 18-point maximum which may be credited toward the degree; a maximum of six courses in dance technique may be credited; a student who takes more than two one-point dance technique courses for credit is required to validate the third and fourth credit-bearing dance technique courses in each of the two semesters with a concurrent course offered by the Dance Department which does not contain a technique component.

Exceptions to this rule are allowed only for courses in the major field or for courses

taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field. A minimum of 90 points of traditional liberal arts courses is required for the student who majors in such a field; for all other majors, a minimum of 102 points of such courses is required.

LENGTH OF RESIDENCE

Students with no transfer credit are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered in absentia, with the permission of the Committee on Programs and Academic Standing.

REQUIREMENTS FOR TRANSFER STUDENTS

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least 60 points, including at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 33). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

TRANSFER CREDIT

Courses completed at other accredited colleges and universities which are similar in content and depth to Barnard courses may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar, who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not normally credited unless or until the second term or a more advanced course has been satisfactorily completed, but a student may request a single exception to this ruling.

Transfer students may apply for credit for previous summer courses under the regulations governing summer study (see page 41).

First-year students with a record of prior course work taken as non-matriculants at an accredited college in the United States may request up to 15 points of transfer credit. Such work will be evaluated after the student has completed 12 points at Barnard. Grades for this course work are included in the overall average.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Matriculated	Points completed
First-year	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more
Unclassified	transfer students who have not yet been assigned credit

Non-matriculated:

- Other college degree candidates
- Barnard alumnae auditing courses
- Barnard alumnae taking courses for credit
- Any other student who is not a degree candidate

A degree candidate (i.e., a student who is matriculated) may not change her status to non-matriculated.

FILING OF DIPLOMA NAME CARDS

The Diploma Name Card, available in the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and February. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar). Graduation ceremonies are held in February and May.

OTHER ACADEMIC OPPORTUNITIES

MINOR

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chair. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 35).

To qualify for the minor, a course must be letter-graded A-C.

SENIOR SCHOLAR PROGRAM

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as Senior Scholar on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points for the project. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean in the Office of the Dean of Studies, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. Her written application for the Senior Scholar Program is submitted to the Committee on Honors for approval. The deadline for the application appears in the College Calendar.

CENTENNIAL SCHOLARS PROGRAM

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors, chosen in consultation with the program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled first-year students and sophomores who distinguish themselves during their first terms at the College.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student's first year as a Centennial Scholar, she enrolls in CEN BC1889, "Working with Ideas," an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium, which is devoted to the public presentation of the project in the term of its completion. Dinner lectures, outings to museums, artists' studios, and research laboratories, and similar activities are additional features of the Program.

OTHER ACADEMIC OPPORTUNITIES

The Centennial Scholars Program is governed by a committee consisting of the following members:

Leslie Lessinger, Co-Director, *Professor of Chemistry*

Natalie Kampen, Co-Director, *Professor of Art History and Women's Studies*

Dorothy Denburg, Academic Adviser to Centennial Scholars, *Dean of the College*

Serge Gavronsky, *Professor of French*

Timothy Halpin-Healy, *Associate Professor of Physics*

Cary Plotkin, *Assistant Professor of English*

Doris Davis, *ex-officio, Director of Admissions*

WRITING FELLOWS PROGRAM

The Writing Fellows Program offers exceptional students with strong writing, reading, and communication skills an opportunity to become peer-tutors in writing. During their first semester in the program, students take a seminar and practicum in the teaching of writing (see page 138: *The Writer's Process*) usually in the Autumn term of their sophomore or junior year. As Writing Fellows, they go on to work in a number of different settings (e.g., The Writing Room, writing-intensive courses across the curriculum) with Barnard undergraduates at all levels and in all disciplines. Writing Fellows receive a stipend and are asked to make a commitment of three semesters to the program.

HIGHER EDUCATION OPPORTUNITY PROGRAM

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all in-coming HEOP students receive instruction in English, mathematics, research, and public-speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN HEALTH PROFESSIONS

The basic pre-medical and pre-dental requirements are two semesters of introductory biology and one or two semesters of biology laboratory, all at the 2000 level or higher (BIO BC 2001, BC 2002, and laboratory: BC 2003 and BC 2004); two semesters of general chemistry and one semester of laboratory (CHE BC 1601, BC 3232); two semesters of organic chemistry and one semester of organic laboratory (CHE BC 3230, BC 3231, BC 3328); two semesters of physics with accompanying laboratory (PHY V 1003-1004; V 1103-1104; BC 1206-1207); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional chemistry laboratory (CHE BC 3338 or BC 3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (nursing, optometry, podiatry, physical therapy, and public health) as well as medicine and dentistry.

Pursuing a major in the sciences is not necessary for pre-medical students provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry, at which time students are advised to take the Medical College Admissions Test, normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their advisers as early as possible and should start a file with the pre-professional assistant and consult with the pre-professional dean in the Office of the Dean of Studies by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

PROGRAM PLANNING FOR LAW SCHOOL APPLICANTS

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Official Guide to U.S. Law Schools*, an annual publication of the Association of American Law Schools. Copies may be consulted in the Office of the Dean of Studies, 105 Milbank, which also maintains a library of current law school catalogues and other relevant information.

Students are encouraged to make themselves known to the pre-professional advisers in the junior year or earlier. The LSAT should be taken in June or October of the year prior to expected entry to law school; the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in March each year and can be picked up in 105 Milbank any time thereafter.

PROGRAM PLANNING FOR STUDENTS INTERESTED IN JOURNALISM, SOCIAL WORK AND BUSINESS

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies and in the Office of Career Services.

CREDIT FOR SUMMER STUDY

Students are expected to complete the work for the degree in eight academic terms. The granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit and is subject to some additional regulations. The maximum number of summer points that can be applied toward the degree for course credit is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student may not receive degree credit for summer courses exceeding this maximum, she may fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard placement examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may learn in advance whether the

OTHER ACADEMIC OPPORTUNITIES

courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring Term. Although the application may also be retroactive, the student places herself at risk of being denied degree credit if she fails to receive prior written approval from the Committee. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one five- or six-week summer session.
2. To be eligible for credit, a course normally must meet for at least five weeks.
3. Grades for courses taken in summer school must be letter grades in the A to C range; they are not included in the cumulative grade point average. These courses and grades will, however, be considered for admission to graduate or professional schools, which normally require the submission of an applicant's transcripts from all the colleges attended.

STUDY ABROAD

Several options for study abroad are available to academically qualified Barnard students. The Faculty has set the following guidelines for eligibility. By the time they plan to study abroad, students should:

- be competent in the language of instruction abroad, or, when the language of instruction is English, have some knowledge of the language of the host country;
- have completed all or nearly all of the basic requirements for the degree;
- have no outstanding Incompletes;
- have a good academic record;
- have worked out, in consultation with the major and study abroad advisers, a plan for the completion of all major and college requirements for graduation.

The educational interests of each applicant are of primary concern to the staff of the Dean of Studies in acting on a student's request to study abroad for degree credit. Interested students should begin the process of applying to study abroad by consulting the dean responsible for study abroad advising in the Office of the Dean of Studies during the first semester of the sophomore year. Students must obtain the approval of the study abroad adviser, the Class dean, and the major adviser in order to receive the College's permission to study abroad for credit toward the Barnard degree.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (Somerville College), Cambridge (Newnham College), The University of London (University College, London School of Economics, Queen Mary and Westfield College, and King's College), and the University of Warwick. Admission to these colleges is competitive.

Barnard students who wish to study for degree credit in Paris may apply to the **Reid Hall** program, which offers a varied and attractive curriculum in French language, literature, culture, art history, film studies, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may, through this program, enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, a student must have completed two years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term over 100 students take part in this program. Some are French majors, but most are not. The student body comprises undergraduates from Barnard and Columbia, as well as those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris

near Luxembourg Gardens. The administrative staff of Reid Hall assists students in planning academic programs and in finding housing accommodations. Bulletins and applications are available in General Studies, 419 Lewisohn Hall, and in 105 Milbank. Interested students should consult the dean responsible for study abroad advising in the Office of the Dean of Studies to discuss their plans and to have the dean review and sign their applications. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar.

Barnard also participates in the program of the **Intercollegiate Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Barnard also offers the opportunity for study in Japan at the **Kyoto Center for Japanese Studies** through its participation with Columbia in a consortium organized by Stanford University and several other institutions.

Course credit for courses taken at institutions abroad, other than the Barnard-Columbia program in Paris, is generally treated as transfer credit (see page 37).

STUDY AT JEWISH THEOLOGICAL SEMINARY

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of the chair of her major department. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 37) for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult the appropriate dean in the Office of the Dean of Studies at Barnard and at the Seminary's List College and must be separately admitted to each institution.

Qualified Barnard students may request housing at the Seminary. Double-degree students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges, adjusted on a pro-rata basis. Students taking individual courses pay the Seminary directly for those courses at an adjusted rate.

STUDY AT THE JUILLIARD SCHOOL

The Juilliard School at Lincoln Center offers opportunities to Barnard students for individual courses in dance and music. For a five-year program leading to the Barnard A.B. and the Juilliard M.M., rigorous auditions are required for which early application must be made. Students interested in these options may obtain further information and audition dates by consulting the appropriate dean in the Office of the Dean of Studies on their admission to Barnard or as early as possible.

OTHER ACADEMIC OPPORTUNITIES

STUDY AT THE MANHATTAN SCHOOL OF MUSIC

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a cooperative program of cross-registration, musically qualified Barnard students who pass required auditions have the opportunity to enroll in six semesters of private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors and minors in Music may take eight semesters of lessons. Students must receive permission to enroll from the Dean of Studies.

SPECIAL ACADEMIC PROGRAMS

Barnard offers a summer academic program for secondary school students, "Summer in New York: Barnard's Pre-College Program." Program information and applications are available in the Office of the Director of Special Academic Programs.

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, the School of Engineering, the School of Law, and the School of Dental and Oral Surgery. Details on specific programs are given below.

SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the M.I.A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year, but to ensure appropriate guidance and preparation, consultation is recommended in the sophomore year with the appropriate dean in the Office of the Dean of Studies at Barnard. Qualified students nominated by the Office of the Dean of Studies complete the application, which is sent to the School of International and Public Affairs. The nominees will be interviewed by an admissions officer at SIPA. The final decision on admission to the program rests with the SIPA Review Committee. Acceptance for the joint program is a provisional admission to SIPA for the M.I.A. degree. All provisionally admitted students will be required to submit a formal application to SIPA in the spring semester of the senior year. Formal applications for fellowship consideration are due by January 15; otherwise, applications are due by April 15.

A Barnard student's eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and a strong background in quantitative courses.

A Barnard student in the program must satisfy all Barnard degree requirements. Courses

in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA course work, including a substantial part of the SIPA Core “A” Requirement. A typical program would include most of the 12 points of course work at the 4000 level or above in the following areas:

- International politics
- Foreign historical and political processes
- International law
- United States foreign policy
- International policy analysis and management
- Graduate-level economics

A grade of B or better is required in courses to be credited toward the M.I.A. degree.

GRADUATE PROGRAM IN PUBLIC POLICY AND ADMINISTRATION

Barnard College and the Columbia University Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the Bachelor of Arts degree at the end of four years and the Master of Public Administration after one additional year.

Application to the program is made directly to the Graduate Program in Public Policy and Administration at the School of International and Public Affairs, but the designated dean in the Office of the Dean of Studies should be consulted before the application is filed, preferably as early as the sophomore year. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the autumn term of her senior year. Final admission is conditional upon the applicant’s receiving the A.B. degree from Barnard.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chair of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program a student completes at least 30 points, including a workshop and policy specialization requirements.

SCHOOL OF LAW

Each year Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two juniors with outstanding records to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, 60 of which will have been completed at Barnard. She must have fulfilled all degree requirements except those for the major, which she must be able to complete together with the final 30 points at the Law School. Twelve of the 30 must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year with a score in keeping with the median level of accepted applicants to the Columbia Law School in that academic year.

OTHER ACADEMIC OPPORTUNITIES

Students interested in the program should consult the pre-law dean in the Office of the Dean of Studies early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December, and February.

SCHOOL OF DENTAL AND ORAL SURGERY

A limited number of qualified students may enter the Columbia University School of Dental and Oral Surgery after three years of undergraduate work at Barnard. To be eligible for this program, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the School of Dental and Oral Surgery. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the School of Dental and Oral Surgery, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the health professions dean in her sophomore year for early program planning. Before her admission to the School of Dental and Oral Surgery, she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree.

SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Barnard College and the Columbia University School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses may be taken in the School of Engineering and Applied Science. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, major, and physical education requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs designated by the Dean of Studies to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for transfer admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the bulletin of the school.

AUDITING

STUDENT AUDITING

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript, are not graded, and may not be subsequently converted to credit courses.

ALUMNAE AUDITING

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.

REGISTRATION

REGISTRATION FOR NEW AND CONTINUING STUDENTS

Instructions and materials for registration are enclosed in individual packets distributed to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 23) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see below), which must be completed by the deadline published in the College Calendar. If for some extraordinary compelling reason, a student must enroll in less than a full-time program, the written permission of her Class dean in the Office of the Dean of Studies is required.

REGISTRATION FOR RESUMED EDUCATION STUDENTS

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines.

REGISTRATION FOR COLUMBIA UNIVERSITY COURSES

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses not cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are limited in enrollment. Barnard students wishing to register in such courses must take part in the limited-enrollment procedures.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the Catalogue. All Teachers College courses that are not cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

STUDENT PROGRAMS

PROGRAM FILING

The list of courses for which the student is registered each semester is known as the student's program.

Each student is required to attend the appropriate program-planning meeting scheduled before the end of each semester (see College Calendar) and to carefully consider seriously her selection of courses for the following semester.

During the program-planning period each first-year student and first-semester sophomore files her tentative program for the following semester with the Registrar. Each senior, junior, and second-semester sophomore is expect to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a final decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is **no refund** issued for courses dropped after the published deadline for program filing, **and any part-time program filed after that date will be assessed full tuition.**

Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

ADJUSTMENT OF FEES AND REFUNDS FOR CHANGING PROGRAM OF STUDY

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 16 (last day of program filing) in the Autumn term and by January 27 in the Spring term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

SCHEDULE OF CLASSES AND ROOM ASSIGNMENTS

Class times and room numbers are published in the Schedule of Classes, available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Registrar during program planning.

COURSES WITH LIMITED ENROLLMENT

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

ADDING COURSES

Courses may not be added after the deadline for filing academic programs. Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signature on either the program or add form of the class adviser (first-year student or sophomore) or the major adviser (junior or senior).

DROPPING COURSES

Courses may be dropped by submission of an Application to Drop a Course, available at the Office of the Registrar. The form requires the signature of the class adviser (first-year student or sophomore) or the major adviser (junior or senior), and must be returned to

REGISTRATION

the Office of the Registrar before the deadline published in the College Calendar. Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline to drop and by the deadline to withdraw, the course will be recorded on the permanent transcript with the notation W (Withdrawal). Action on any course which ends prior to the above dates must be taken before the last class meeting. No adjustment of fees (including any laboratory fees) is made for any course dropped after the deadline for program filing.

ATTENDANCE

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations. A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

POLICY ON RELIGIOUS HOLIDAYS

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration, deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn term to all faculty and administrators.

WITHDRAWAL AND READMISSION

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 25.) A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies.

Students withdrawing for medical reasons must be cleared by Student Health Services prior to readmission. Specific procedures and conditions for readmission are determined on a case by case basis and communicated to the student and/or parent or guardian at the time of withdrawal. A student in good health who leaves with her record complete and who is in satisfactory standing is eligible for readmission. She must submit a written confirmation of her intention to return to the Dean of Studies by April 1 for the Autumn term or November 15 for the Spring term. A readmission fee of \$100 must accompany each application for readmission.

EXCEPTIONS TO COLLEGE REGULATIONS

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

EXAMINATIONS

LANGUAGE PLACEMENT EXAMINATIONS

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750, 700 or above, in Hebrew or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale (see page 33). A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credit.

First-Year Students

First-year students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Class Dean advises all new first-year students of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or first-year students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

OTHER DEPARTMENTAL PLACEMENT EXAMINATIONS

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

MAKE-UP EXAMINATIONS DURING THE TERM

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

FINAL EXAMINATIONS

No class meetings will be held on required reading days as set forth in the College Calendar. The dates for final examinations, given at the end of each term, are published in the College Calendar. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar at least

EXAMINATIONS

two weeks in advance of final examinations.

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has firsthand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour of a three-hour examination, she will be graded on the work she has completed.

DEFERRED FINAL EXAMINATIONS

Deferred final examinations for Barnard courses, given in September and January (see College Calendar), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the instructor and to the Office of the Dean of Studies in person or by telephone on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by dates designated in the College Calendar. A payment of a \$10 handling fee for each examination must accompany the application. Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

EXAMINATIONS FOR STUDENTS WITH DISABILITIES

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Director for Disability Services about reasonable accommodations. Students should obtain copies of the Test Accommodations Form in Room 7 Milbank and return them at the beginning of each semester.

SAT, GRE, AND LSAT EXAMINATIONS

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.

GRADING AND ACADEMIC HONORS

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from a course without official notification to Registrar

Pass/Fail grades are recorded for all students in certain courses, e.g., physical education. Pass/Fail grades for individual students are subject to regulations described below.

Grades of I or X that were recorded in 1980-81 or before have been changed to NC (no credit) if the missing work was not submitted and the portion of the course work that had been completed was passing; beginning 1981-82, the unsubmitted work has been calculated as zero in averaging the final grade. If the work completed is not of passing quality, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1.0
A = 4.0	B = 3.0	C = 2.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students who have completed 12 points with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard with probationary conditions at the discretion of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

GRADE REPORTS

The grade report for the Autumn Term is enclosed in the student's registration packet in January. At the end of the Spring Term, a cumulative grade report of all the student's work at Barnard is sent to her home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parent(s) or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$3 per copy will apply (see Transcripts, page 55).

PASS/D/FAIL OPTION

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form in duplicate to the Office of the Registrar before the deadline published in the College Calendar. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the Pass/D/Fail option the student is held responsible for fulfilling all course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass/Fail grades for all students enrolled, e.g., ENG BC 1202. Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g., English BC 1202). The P/D/F option cannot be elected for First-Year English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is irreversible. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

INCOMPLETES

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "Early Incomplete" option requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. A student must have the permission of her instructor to qualify for an Incomplete, and she is required to use the form, which is a written guarantee of the terms set forth in it by the instructor.

ELIGIBILITY FOR STUDENT GOVERNMENT OFFICES

To be a candidate for election to a student government office, a student must be in good academic standing and free of disciplinary action for at least one year.

ELIGIBILITY FOR INTERCOLLEGIATE ATHLETICS

Any student at Barnard College, Columbia College, or the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- be in satisfactory academic standing;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree.

An eligibility form must be filed with the Director of Athletics. The completed form is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about eligibility should be referred to the Dean of Studies.

DEAN'S LIST

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms and complete at least 12 letter-graded points each term with a minimum grade point average of 3.4 for the academic year. (P-graded points are excluded.) Her grade point average will be based on all her letter grades in the A to F range.

TRANSCRIPTS

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$3 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$3 fee. There is no charge, however, for a transcript sent to a division of the University. Barnard will not send copies of transcripts from other schools; they must be requested directly from the institutions attended.

HONORS

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet the designated requirements. Grades for summer work are excluded from the grade point average.

GRADING AND ACADEMIC HONORS

If the total number of points for summer credit, for courses graded P or P*, and for transfer grades that do not have Barnard equivalents exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a small percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Registrar or the Office of the Dean of Studies.

COURSES OF INSTRUCTION

THE CURRICULUM

The Barnard curriculum consists of 43 departments and programs. At present, 26 departments and 12 interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1994-95; their listing in this catalogue is not a guarantee of their availability, and the College may revise its degree requirements from time to time.

CLASSES

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 23 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

COURSES OF INSTRUCTION

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an x; Spring term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chair and the approval of the Committee on Programs and Academic Standing. The first semester of elementary language, whether taken at Barnard or elsewhere, normally does not receive degree credit unless the second semester is completed. However, a single exception to this rule is allowed on written request to the Registrar.

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. The aforementioned guidelines regarding hyphens and commas between course numbers for BC courses do not necessarily apply to courses offered by other faculties.

- BC – Barnard College
- C – Columbia College
- F – School of General Studies
- G – Graduate School of Arts and Sciences
- H – Reid Hall, Paris
- R – School of the Arts
- V – Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W – Other inter-faculty course

The level of the course is generally as follows:

- 1000-3999 Undergraduate
- 4000-4999 Advanced undergraduate and first-year graduate
- 5000-8999 Graduate, normally not open to undergraduates

This program is supervised by the Committee on American Studies:

Assistant Professor of History: Beth Bailey (Director)

Associate Professor of Anthropology: Nan Rothschild

Professor of Art History: Barbara Novak

Associate Professor of English: William Sharpe

Professor of History: Robert A. McCaughey

Professor of History: Rosalind N. Rosenberg

Professor of Political Science: Demetrios Caraley

Associate Professor of Religion: Randall Balmer

Assistant Professor of Religion: Judith Weisenfeld

Associate Professor of Sociology: Jonathan Rieder

Professor of Spanish: Alfred Mac Adam

The American Studies Program offers an interdisciplinary major for students who want to study the society and culture(s) of the United States by focusing on a central subject, theme, or set of questions. In consultation with the program director, each student chooses an adviser from among several departments and works closely with the program director and her adviser to define a thematic concentration within the major. For example, a student might define her concentration as "Gender and American Culture," or "19th-Century American History and Literature," or "The African-American Experience," or "Culture and Politics," or "Community in American Society." Required courses in American history and literature, as well as the junior colloquium and senior seminar, offer a solid foundation for interdisciplinary study.

Prospective majors must see the program director for more information about structuring concentrations and help in selecting an adviser. The program director can provide examples of possible programs and access to a file of syllabi from American Studies courses in other departments. Both Barnard and Columbia College courses will satisfy major requirements.

REQUIREMENTS FOR THE MAJOR

The American Studies major requires a minimum of 12 courses:

1. Two-semester sequence American History Survey, HIS BC 1051 and 1052. Majors are urged to complete this requirement by the sophomore year. This requirement may be waived for those with scores of 4 (waives one semester) or 5 (waives both semesters) on the Advanced Placement Exam. Those students should substitute upper-level American history courses.
2. One semester of the American Literature sequence (ENG BC 3179, 3180, 3181, 3182).
3. Junior Colloquium: Approaches to American Cultural History, AMS BC 3401 (offered only in Autumn term).
4. Senior Seminar (AMS BC 3703 and 3704). In some cases, a senior seminar sequence in one of the departments may be substituted for AMS BC 3703 and 3704.

5. A set of at least six courses organized around a theme or subject. One of the six courses must be a seminar or colloquium. The program director and adviser must approve both the theme and the set of courses the student selects for the concentration.

No minor is offered in American Studies.

COURSES OF INSTRUCTION

AMERICAN STUDIES-HISTORY

ASH BC 3400x

Everyday Life in Post-war America

A consideration of long-term trends in, and relationships among, topics such as work, recreation, religion, housing, education, popular culture and family life from 1945 to the present. —M. Carnes
Prerequisite: one of HIS BC 3067, W 3651, BC 1052, W 1110 or permission of instructor.

4 points. M 2:10-4:00

ASH BC 3401x

Approaches to American Cultural History

Colloquium on methodologies of American Studies. With the participation of American Studies faculty from several departments, students will learn about different sources and methods that can be used to study a given subject. Topics will vary. —B. Bailey

4 points. Tu 2:10-4:00

AMS BC 3454y

Cultural Studies

A theoretically and methodologically based examination of the historical production of popular culture in America. —B. Bailey

4 points. W 11:00-12:50

AMS BC 3703x, 3704y

Senior Seminar

Individual research on topic related to major thematic concentration and preparation of senior thesis.—Staff

Enrollment limited to senior majors.

4 points. W 4:10-6:00

AMS BC 3999x, AMS BC 3999y

Independent Research

—Staff

3 or 4 points. Hours to be arranged

AMERICAN STUDIES COURSES

IN OTHER DEPARTMENTS

Students should consult appropriate department listings for complete information about these courses:

Anthropology

- V 1002 Interpretation of Culture
- V 1007 The Origins of Human Society
- V 3002 Political Anthropology

- V 3011 Living in Society: Social Relations
- V 3038 Ethnicity and Race
- V 3041 Theories of Culture: Past and Present
- V 3070 The Study of Cities: An Archaeological Perspective
- V 3100 Anthropology of Urban Life
- V 3128 Microbes, Magic, and Medicine
- V 3712 Lines That Divide: Race, Class, Gender and Ethnicity in Contemporary America
- V 3713 Ties That Bind: Institutions and Communities in Contemporary America
- BC 3868 Ethnographic Field Research in New York City
- V 3960 Culture of Public Art and Display in NY
- W 4254 Archaeology of the American Southwest
- W 4150 Ethnography of Native Americans

Art History

- AWS BC 3123 Women and Art
- W 4624 American Painting, 1760-1900

Dance

- BC 1247, 2248, 3249 Jazz Dance I, II, Advanced (all three required)
- BC 2566 History of Dance: Renaissance to the Present
- BC 3574 Contemporary Choreographers and Their Works

Economics

- BC 2010 Sex, Discrimination and the Division of Labor
- BC 2013 Economic History of the United States
- BC 2014 Topics in Economic History
- BC 3011 Poverty and Income Distribution

English

- BC 3140x
 - Sec. 1 Explorations of Black Literature: 1760-1890
 - Sec. 4 Writers of the Anglophone Caribbean
- BC 3140y
 - Sec. 1 19th-Century American Women Writers
- EWS BC 3144 Minority Women Writers in the United States
- BC 3179 American Literature to 1800
- BC 3180 American Literature: 1800-1870
- BC 3181 American Literature: 1871-1945
- BC 3182 American Fiction
- BC 3185 Modern British and American Poetry

- BC 3187 American Writers and Their Foreign Counterparts
 BC 3189 Post-modern Literature
 BC 3997, 3998 Senior Seminar
 (with instructor's permission)
 Sec. 5 Colonial Encounters with Native Americans
 W 4621 African-American Texts:
 Harlem Renaissance and Beyond

History

- BC 1051, 1052 Survey of American Civilization
 BC 3052 The Constitution in Historical Perspective
 BC 3056 The American Civil Rights Movement
 BC 3067 America Since 1945
 BC 3071 American Cultural History
 BC 3074 History of Sexuality in America
 BC 3082 American Women in the 20th-Century
 BC 3085 America in the 1960s
 BC 3444 Bourgeois America
 BC 3450 History of Childhood in America
 BC 3454 Cultural Studies
 BC 3458 War & 20th-Century American Culture
 BC 3459 Education in American History
 BC 3463 American Women in the 1920s
 BC 3469 Elites in 20th-Century America
 BC 3464 Higher Learning in America
 BC 3477 Gender in the Bourgeois World
 BC 3478 The New Deal and the Modern State
 BC 3489 The Fourteenth Amendment and Its Uses
 W 3004 African Cultures from Pre- to Post-Colonial Times

Music

- V 2010 Race, Gender and the Politics of Rock 'n' Roll
 V 2016 Jazz

Philosophy

- ESP BC 3025 Ethics and Environment
 BC 3147 Philosophical Issues of Feminist Theory
 BC 3720 Ethics and Medicine
 BC 3758 Philosophy of Education
 BC 3780 Philosophy of Law

Political Science

- BC 3001 Dynamics of American Politics
 V 3313 American Urban Politics
 BC 3322 The American Congress
 BC 3326 Colloquium on Civil Rights and Liberties
 BC 3327 Colloquium on the Content of American Politics
 V 3328 Women and American Politics

- BC 3331 Colloquium on American Political Decision Making
 V 3320 Contemporary Black Politics
 BC 3335 Mass Media and American Democracy
 BC 3433 Concepts of Democratic Political Theory
 W 4311 American Parties and Elections
 W 4316 The American Presidency

Religion

- V 3803 African-American Religion
 Sec. 42 Religion and Public Policy in the U.S.
 Sec. 24 African-Based Religions of the Caribbean
 V 3804
 Sec. 40 Women and Religion in American History
 Sec. 59 Racial Politics of American Religion 1780-1925
 V3502 The History of Religion in America I
 V 3503 The History of Religion in America II

Sociology

- BC 1002 Introduction to Sociology
 V 1005 Medical Care in Twentieth-Century America
 V 3200 Gender, Class, and Race
 V 3213 Culture in Contemporary America
 V 3303 Female and Male: A Sociological Perspective
 V 3235 Social Movements
 V 3226 Science & Society
 V 3310 Women and Deviance
 V 3320 Social Problems
 V 3555 Sociology of Family Institutions

Spanish

- BC 3203 Twentieth-Century Women Poets of the Americas: Kindred Voices
 BC 3204 Literature of the Americas

Women's Studies

- V1001 Women and Men: Power, Politics, Poetry
 BC 3111, 3113 Major Texts of the Feminist Tradition, I and II
 BC 3117 Women and Film
 V 3502 Women and Science
 V 3508 Asian American Women's Literature

This program is supervised by the Committee on Ancient Studies:

Assistant Professor of Art History (Columbia): Alexander MacGillivray (Representative for Columbia)

Professors of Classics: Lydia Lenaghan (Representative for Barnard)

Associate Professor of History (Columbia): Richard Billows

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity are offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least four courses in one geographical area or period; courses in at least three departments (to ensure proper interdisciplinary training and experience); the elementary sequence of a relevant ancient language; the appropriate history course; and at least the first semester of *Ancient Studies V 3998, V 3999*.

In some cases, a senior seminar in one of the departments may be substituted for *Ancient Studies V 3998, V 3999*. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

No minor is offered in Ancient Studies.

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y

Directed Readings in Ancient Studies

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s). —Staff

Permission of the departmental representative required.
3 points. Hours TBA.

ANC V 3998x, ANC V 3999y

Directed Research in Ancient Studies

A program of research in Ancient Studies. Research paper required. For 3999y, the topic must be submitted to the departmental representative

and the appropriate adviser decided upon by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses. —Staff
Permission of the departmental representative required.
3 points. Hours TBA.

A list of other relevant courses of instruction offered in 1994-95 may be obtained from the Representative for Barnard.

411 Milbank Hall

854-4315, 5417

Professors: Morton Klass, Abraham Rosman, Paula G. Rubel, Judith Shapiro (President)

Associate Professor: Nan Rothschild (Chair)

Assistant Professor: Lesley Sharp

Other officers of the University offering courses listed below:

Professors: Alexander Alland, Myron Cohen, Ralph Holloway, Don J. Melnick¹, Michael Taussig¹, Elliott P. Skinner¹

Associate Professors: Elaine Combs-Schilling, Terence D'Altroy², Roger Lancaster, Katherine Newman

Assistant Professors: Marina Cords, David Koester², Olivier de Montmollin, Glenn Stone, Linda Green

¹Absent on leave 1994-95

²Absent on leave Spring term

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements. Courses listed as W 4000 are open to majors, non-majors, and interested graduate students.

The department also cooperates with related programs such as American Studies, Foreign Area Studies, Pan-African Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology. Arrangements for combined, double, joint, and special majors are made in consultation with the chair.

REQUIREMENTS FOR THE MAJOR

Every major is urged to acquire a general knowledge of three of the four fields of anthropology (cultural and physical anthropology, archaeology, and anthropological linguistics) and of their interrelationship. To this end, the student's program should be designed in consultation with her adviser, and as soon as possible after the declaration of the major. Continuing and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

ANT V 1002 *The Interpretation of Culture*

and one of the following:

ANT V 1007 *The Origins of Human Society*

ANT V 1008 *The Rise of Civilization*

ANT V 1010 *The Human Species: Its Place in Nature*

plus:

ANT V 3011 *Living in Society: Social Relations*

ANT V 3041 *Theories of Culture: Past and Present*

and

BC 3871x-BC 3872y *Problems in Anthropological Research*

plus at least four other courses of the student's own choosing.

In consultation with advisers, programs will be designed so as to reflect the students' interests and plans—whether they intend to go on to graduate studies in anthropology, or expect to enter other fields, such as medicine, administration, public relations, law, social work, and so on.

Senior Essay

All students majoring in Anthropology are required to submit an "Essay" of substantial length and scholarly depth. Such a paper will usually be written during the course of the Senior Seminar or, under special circumstances, and with department approval, in one or two semesters of BC 3999x, y *Individual Projects*.

REQUIREMENTS FOR THE MINOR

The minor consists of five courses: ANT V 1002; one of the following: V 1007, V 1008, or V 1010; plus three other Anthropology courses selected in consultation with the chair.

Pre-law and pre-medical students who wish to minor in anthropology should seek the advice and approval of the department chair.

COURSES OF INSTRUCTION

GENERAL COURSES

ANT V 1002x,y

The Interpretation of Culture

The anthropological approach to the study of culture and human society. Using case studies from ethnography, the course explores the universality of cultural categories (social organization, economy, law, belief system, art, etc.) and the range of variation among human societies.

3 points.

x: Sec. 1 Tu Th 1:10-2:25—A. Rosman

Sec. 2 M W 1:10-2:25—A. Alland

y: Sec. 1 M W 2:40-3:55—M. Klass

Sec. 2 Tu Th 1:10-2:25—R. Lancaster I S

Discussion hours TBA.

ANT V 1007y

The Origins of Human Society

An archeological perspective on the earliest forms of human culture in the prehistoric past. Topics include: hominids sharing food; people living in a variety of environments whose economies range from foraging to early agriculture; and the origins of sedentism and social complexity.

3 points. y: Tu Th 10:35-11:50—G. Stone S

ANT V 1008x

The Rise of Civilization

The rise of major civilizations in prehistory and protohistory throughout the world, from the initial appearance of sedentism, agriculture, and social stratification through the emergence of the archaic empires. Description and analysis of a range of regions that were centers of significant cultural development: Mesopotamia, Egypt, the Indus River Valley, China, North America, Mesoamerica, and Andean South America. —T. D'Altroy

3 points. Tu Th 1:10-2:25 I S

ANT V 1010x

The Human Species: Its Place in Nature

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution. Specifically, Darwin's theory of evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and trends in human evolution. —TBA

3 points. M W 11:00-12:15 S

ANT V 1011y
Behavioral Biology of the Living Primates
Study of non-human primate behavior from the perspective of phylogeny, adaptation, physiology and anatomy, and life history. Focuses on the four main problems primates face: finding appropriate food, avoiding being eaten themselves, reproducing in the face of competition, and dealing with social partners. —M. Cords
Prerequisite: V 1010.
3 points. M W 11:00-12:15 S

ANT V 1015y
Multiculturalism:
Ways of Looking at Other Cultures
An anthropological exploration of cultural differences and multiculturalism. Material will be drawn from cultural texts and ethnographies. —A. Rosman
3 points. Tu Th 10:35-11:50 I S

Linguistics LIN V 1101x, y
Introduction to Linguistics
See Linguistics listing.

TOPICAL COURSES

ANT V 3005y
Societies and Cultures of Africa
—L. Sharp
3 points. M W 9:10-10:25 II S

ANT V 3009y
Peoples and Cultures of North Africa and the Middle East
An introduction to peoples and cultures of the Middle East and North Africa, with an emphasis on Arabs and Islam. Focus on the role of patrilineality, Arabic, commerce, and Islam in the construction of Muslim societies. —E. Combs-Schilling
3 points. M W 1:10-2:25 II S

ANT V 3011x
Living in Society: Social Relations
Institutions of social life. Kinship and locality in the structuring of society. Monographs dealing with both literate and non-literate societies will be discussed in the context of anthropological fieldwork methods. —A. Rosman
Prerequisite: An introductory anthropology course.
3 points. Tu Th 9:10-10:25 I S

ANT V 3014x
Societies and Cultures of East Asia
Introduction to the contemporary societies of China, Japan and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies. —TBA
3 points. Tu Th 4:10-5:25 II S

ANT V 3015y
Chinese Society and Culture
3 points. Not offered in 1994-95. II S

ANT V 3017y
Caribbean Societies in the Global System
3 points. Not offered in 1994-95. III S

ANT V 3021x
Sex Roles in Cross-Cultural Perspective
—L. Sharp
3 points. M W 1:10-2:25 I S

ANT V 3024y
Changing Africa
3 points. Not offered in 1994-95. II S

ANT V 3031x
Scientific Reasoning and Archaeology
3 points. Not offered in 1994-95. S

ANT V 3035y
Popular Religion in Chinese Society
3 points. Not offered in 1994-95. II S

ANT V 3036x
Peasant Societies
3 points. Not offered in 1994-95. I S

ANT V 3038x
Ethnicity and Race
Analysis and comparison of ethnic and race relations in the context of social change and historical transformation, with particular reference to the United States, Europe, Africa, and Asia. —P. Rubel
3 points. Tu Th 10:30-11:50 I S

Anthropology-Women's Studies ANW V 3039y
Women in Third World Development
3 points. Not offered in 1994-95. I S

ANT V 3041y
Theories of Culture: Past and Present
Intellectual currents contributing to the development of anthropology as a discipline. Theoretical writings of the anthropological ancestors as well as those of current practitioners will be considered. —P. Rubel
3 points. Tu Th 10:35-11:50 I S

ANT V 3068y
Myths, Sagas and Cultures of the Far North
Primarily an introduction to Old Norse literature and culture through the reading of the ancient poetry and sagas of Iceland and interpretation of the myths, legends and stories they contain. It also looks at folklore from Finland and circum-polar Siberia and its role in the development of

national and ethnic consciousness in these regions. —D. Koester 3 points. M W 2:40-3:55	III S	ANT V 3405y History and Time in Anthropology 3 points. Not offered in 1994-95.	S
ANT V 3070x The Study of Cities: An Archaeological Perspective A consideration of cities from several points of view; a developmental and comparative perspective, looking at urban origins. Focus on New York City from its inception to the present, examining its spatially defined sub-units ("neighborhoods"), structured by class and ethnicity. —N. Rothschild 3 points. Tu Th 9:10-10:25	I S	ANT V 3410x Controversial Issues in Anthropology Enrollment limited to 16. 3 points. Not offered in 1994-95.	S
ANT V 3100y Anthropology of Urban Life 3 points. Not offered in 1994-95.	I S	ANT V 3460y Gender and Ethnographic Representation The history of gender as a discourse in ethnographic representations. Inquires how ethnography has constituted gender as an object of inquiry and then considers to what extent it has been subject to gendered structures of desire that operate in other kinds of representation texts. —R. Morris 3 points. Tu Th 9:10-10:25	S
ANT BC 3142x, y Colloquium: Current Anthropological Theory Intensive analysis of selected theoretical approaches and issues in anthropology. Enrollment limited to 16 students. 4 points.	I S	ANT V 3500y Colloquium: Problems in Structuralism Enrollment limited to 20 students. 4 points. Not offered in 1994-95.	S
1. Male and Female Cultural Constructions of Gender Not offered in 1994-95.		ANT V 3700x Colloquium: Anthropological Research Problems in Complex Societies 4 points. Not offered in 1994-95.	I S
x: 6. Interpretation and Explanation in Anthropology 4 points. Not offered in 1994-95.	I S	ANT V 3712y Colloquium: Lines that Divide: Race, Gender and Ethnicity in Contemporary America Focus on qualitative, ethnographic studies of social stratification in the United States. Examination of the uses and abuses of concepts of race, class, culture, the culture of poverty, the underclass, gender differences, and ethnic affiliation in the literature of contemporary North America. —K. Newman Enrollment limited to 25. 4 points. M W 11:00-12:50	S
ANT W 3201y Introductory Survey of Biological Anthropology The human species in biological and evolutionary perspective, with particular emphasis on the behavioral and morphological aspects of human evolution. Topics include evolutionary theory and basic population genetics, non-human primate behavior, the fossil evidence for human evolution, human variation, and the interaction of biology and culture. —R. Holloway Prerequisite: V 3201 or permission of the instructor. 4 points. Th 4:10-5:25.	S	ANT V 3713y Colloquium: Ties that Bind: Institutions and Communities in Contemporary America Enrollment limited to 25. 4 points. Not offered in 1994-95.	
ANT W 3204x Dynamics of Human Evolution Prerequisite: V 3201 or permission of the instructor. 4 points. Not offered in 1994-95.	S	ANT BC 3868y Ethnographic Field Research in New York City Open to non-majors with permission of instructor. 4 points. Not offered in 1994-95.	
ANT V 3280y Black Nationalism and the Race/Culture Dialogue in the U.S. 3 points. Not offered in 1994-95.	I S	ANT V 3905x Aztecs, Mayas and the Mesoamerican Past Traces the cultural history of ancient civilizations in Mexico and Central America from their origins to the Spanish conquest. —O. de Montmollin 3 points. Tu Th 2:40-3:55	III S
ANT V 3320y Culture, Tourism and Development 3 points. Not offered in 1994-95.	I S		

ANT V 3910x

Peasant Societies and Their Transformation

3 points. Not offered in 1994-95.

I S

ANT V 3920x

Economy and Society in Prehistory

Introduction to Archaeology or permission of the instructor required. Enrollment limited to 15 students.

4 points. Not offered in 1994-95.

I

ANT V 3929x

Colloquium: Legacy of Power and Violence: Central America in Anthropological Perspective

An exploration of the nature of power, violence, and domination and its expression in Central America, the role anthropology has played and plays in representing the other, and the active and passive ways the subaltern classes respond and resist oppression and repression. —L. Green
Enrollment limited. Prerequisite V1010, V3210 or permission of the instructor.

4 points. Tu 2:10-4:00

S

ANT V 3930x

Archaeological Perspective on Cultural Evolution

4 points. Not offered in 1994-95.

I S

ANT V 3936x

Madness and Civilization: Cross-Cultural Perspectives

An exploration of cross-cultural meanings associated with madness, viewing this condition primarily through the anthropologist's lens. Inquiries framed by questions: how is madness experienced, diagnosed, and treated in different cultures? What sorts of assumptions, stereotypes and/or expectations do we bring to this class? How might we as anthropologists grapple with these difficult, intangible and painful phenomena? —L. Sharp
Prerequisite: One course in ANT. Limited to 20 students.

4 points. W 9:00-11:00

I S

ANT V 3938x

Colloquium: Culture and Performance

In what senses are social action and cultural representation modes of performance? How does performance define, invoke, or reform the body of sensuous and cultural experience? Such questions are at the heart of this course, which examines the possibility and the implications of considering culture and the everyday as performance. —R. Morris

4 points. W 11:00-12:50

S

ANT V 3940x

Current Controversies in Primate Behavior and Ecology

Critical in-depth evaluation of selected issues in

primate social ecology, including adaptationism, sociality, sexual competition, communication, kinship, dominance, cognition, and politics. Emphasizes readings from original literature. —M. Cords
Enrollment limited. Prerequisite V1010, V3210 or permission of the instructor.

4 points. F 10:00-11:50

S

ANT V 3945x

Colloquium: Colonialism and the Family in Africa

An examination of the legacy of colonialism and the effects of the global context on the changing African family. Using case studies from different regions of Africa, family life is explored in pre-colonial African societies; changing relationships between families and political power; effects of migration and urbanization; relationship to the environment; economic roles of women and children. —E. Schildkrout

4 points. M 11:00-12:50

II S

ANT V 3955y

Colloquium: The Ethnographic Imagination

Social structure, symbolic, historical, and critical turns in anthropological writing. Exploration of the way cultural theory, representation, and exotic display developed in the ethnographic tradition from World War II to the present. —K. Newman

4 points. W 11:00-12:50

S

ANT V 3965y

Colloquium: Twentieth-Century Cultural Theory

Do I have a body, or am I my body? A range of 20th-century cultural theory revolves around such a riddle, which this course takes up through readings on various topics: genetics, anatomy, sport, art, sex, work, war, sickness, and death.

—R. Lancaster

4 points. Th 11:00-12:50

S

ANT W 4114x

The Anthropology of Religious Belief

"Religion" approached as a dimension of "Culture" — in terms of classic and contemporary anthropological theory and ethnographic evidence. Values, cosmologies, belief systems, rituals, and religious practitioners will be compared and contrasted, and the interplay of religion and societal change will be addressed. —M. Klass

3 points. M 9:00-10:50 plus hour to be arranged. I S

ANT W 4150x

Ethnology of Native Americans

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of

Native American affairs and the Native Americans today. —P. Rubel

3 points. W 9:00-10:50 plus hour to be arranged. II S

ANT W 4187x

Life in Rural South Asia

3 points. Not offered in 1994-95. II S

ANT W 4230x

Food and Society

Sociocultural and symbolic aspects of foodways. Topics covered include: what, when, and with whom people eat; how and from whom food is acquired, prepared, and served; and what messages these activities convey. Particular attention will be paid to relations of gender, class, and ethnicity. —N. Rothschild

3 points. Th 2:10-4:00 plus hour to be arranged I S

ANT W 4236x

Ecological Studies in Anthropology

The use of ecological principles and data in analysis of non-Western societies and the interpretation of culture change. Analyses aimed at understanding adaptation of human societies to their environment. —G. Stone

3 points. M 2:10-4:00 plus hour to be arranged. I S

ANT W 4258y

Ancient States in the New World

—O. de Montmollin

3 points. M 4:10-6:00 plus hour to be arranged III S

ANT W 4625x

Anthropology and Film

3 points. Not offered in 1994-95.

COURSES FOR MAJORS

ANT BC 3871x-3872y

Senior Seminar:

Problems in Anthropological Research

Discussion of research methods and planning and writing of a Senior Essay will accompany research on problems of interest to students, culminating in the writing of individual Senior Essays. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester. —Staff

4 points. M 4:10-6:00

ANT BC 3999x, y

Individual Projects

Research projects are planned in consultation with members of the department and work is supervised by the major's adviser. —Staff
Permission of the department required.

4 points. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the Department Chair and the major adviser. These courses are described in the Bulletin for the Graduate School of Arts and Sciences.

Senior Lecturer: Peggy Deamer (Director)

Adjunct Assistant Professors: Glynis Berry, Taeg Nishimoto, Suzanne Stephens

Other officers of the University offering courses listed below:

Adjunct Assistant Professors: Frederick Biehle, Karen Fairbanks (Columbia College Departmental Representative), Madeline Schwartzman, Anthony Caradonna, David Sherman, Joeb Moore, Carol Willis, Michael Webb.

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research; students are required to choose a "cluster" of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete 14 courses, at least five of which should be Barnard courses:

Four Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V 3103	<i>Architectural Representation: Perception</i>
ARC V V 3101	<i>Architectural Representation: Abstraction</i>
ARC V 3201, V 3202	<i>Architectural Design I and II</i>

Five Lecture courses from the following list*

ARH V	3080	<i>Pre-Columbian Art & Architecture</i>
ARH V	3248	<i>Greek Art and Architecture</i>
ARH V	3250	<i>Roman Art and Architecture</i>
ARC A	6730	<i>American Architecture before 1876</i>
ARC A	4341	<i>American Architecture 1876-1976</i>
ARH W	3645	<i>Twentieth-Century Architecture and City Planning</i>
ARC A	4330, 4331	<i>Urban History I and II</i>
ARC W	4321	<i>John Sloane and his Contemporaries</i>
ARC W	3833	<i>Architecture 1750-1890</i>
ARC W	3180	<i>Art and Architecture of Ancient Egypt</i>
ARC F	3642	<i>Monuments of New York</i>

Two Seminars to be taken in the junior or senior year.*

ARC V	3901	<i>Senior Seminar</i>
ARC BC	3431	<i>Architectural Criticism in the Essay Form</i>

*Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses, consult the listings of other departments.

Three cluster courses are required, chosen in consultation with the adviser from an area of study related to architecture, such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science,

Psychology, Sociology, Theatre, Urban Studies, or Studio Art.

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a license in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC	3211	<i>Architectural Design III</i>
Physics V	1003	<i>General Physics</i>
Mathematics V	1100	<i>Brief Calculus</i>

Note: All studio, seminar, and upper-level courses require the permission of the instructor at the first meeting of the class.

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 or V 3101, and three history/theory courses to be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

ARC V 3901x, y Senior Seminar

Readings, individual class presentations, and written reports.—P. Deamer, C. Willis and J. Moore

Open to architecture majors only.
3 points.

x: W 6:10-8:00 —P. Deamer

y: Sec. 1 M 7:30-9:30 —J. Moore

Sec. 2 M 2:10-4:00 —C. Willis

ARC BC 3431x Architectural Criticism in the Essay Form: Seminar

Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present. —S. Stephens

4 points. W 12:10-2:00

H

STUDIO COURSES

ARC V 3103x, y Architectural Representation: Perception

Introduction to design through studies in perception and visualization, using drawings from nature and architecture. Emphasis on exploratory, inventive processes for the generation, development, and representation of ideas in a variety of media. —M. Schwartzman and staff
Recommended in the sophomore year.

3 points. Sec. 1 Tu Th 9:00-10:50

Sec. 2 Tu Th 11:00-12:50

ARC V 3101x, y

Architectural Representation: Abstraction

Introduction to design through analysis of abstract architectural space and form. Emphasis on the design process and principles of representation through architectural drawing and model-making. Students work in a studio environment. —K. Fairbanks and staff

Recommended in the sophomore year.

3 points.

Sec. 1 Tu Th 9:00-10:50

Sec. 2 M W 1:00-2:50

Sec. 3 Tu Th 7:00-8:50 (y only)

ARC V 3201x

Architectural Design I

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions, and written analysis. —K. Fairbanks and Staff

Prerequisite: V 3103 and V 3101.

4 points. M W 9:00-11:50

ARC V 3202y

Architectural Design II

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises. —P. Deamer and staff

Prerequisite: V 3201.

4 points. M W 9:00-11:50

ARCHITECTURE

ARC BC 3211x

Architectural Design III

Further exploration of the design process through studio work. Programs of considerable functional, contextual, and conceptual complexity are undertaken. —T. Nishimoto

Eligible students are requested to consult the program adviser for Barnard College before the first meeting of class. Prerequisites: V 3202 and permission of the program adviser.

4 points. M W 9:00-11:50

ARC BC 3099x, y

Independent Study

Prerequisite: permission of program adviser for Barnard College, in semester prior to that of independent study.

Professors: Natalie B. Kampen (Women's Studies) , Keith Moxey (Chair), Barbara Novak (Helen Goodhart Altschul Professor), Jane Rosenthal³

Associate Professor: Benjamin Buchloh²

Assistant Professors: Sheila McTighe, Margaret Werth

Adjunct Professor: Maryan Ainsworth

Associates: Joan Snitzer, Ann McCoy

Other officers of the University offering courses listed below:

Professors: James Beck, Richard Brilliant, Joseph Connors¹, David Freedberg, Rosalind Krauss¹, Robin Middleton, Miyeko Murase, Stephen Murray, Esther Pasztory, Theodore Reff¹, David Rosand, Allen Staley

Associate Professors: Hilary Ballon, Barry Bergdoll, Vidya Dehejia, John Russell, Janis Tomlinson

Assistant Professors: Jonathan Crary, Thomas Dale, Alexander MacGillivray, David Sensabaugh

¹Absent on leave 1994-95

²Absent on leave Autumn Term

³Absent on leave Spring Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

The Department offers both a major in the History of Art and a major in Art History with a concentration in the Visual Arts. In each case the student chooses a faculty adviser who assists her in planning a program incorporating personal interests while meeting departmental requirements.

Requirements for the major in the History of Art: Nine Art History courses including at least one each in ancient, medieval, Renaissance, baroque and modern art, and two seminars. Both seminars may be taken in one of the required periods. Art History BC 1001, 1002, *Introduction to the History of Art*, is strongly suggested as an introduction to the field unless a student has sufficient previous training. It is also recommended as a prerequisite to all upper level courses. Each semester of BC 1001, 1002, counts as an elective toward fulfillment of the nine-course requirement, but neither this nor any other broad survey can be substituted for a course in one of the five major areas. Of the nine courses required, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Asian art who will write their senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.

A senior essay is required of the major. With the chair's permission, seniors may elect Art History BC 3999 *Independent Research*, for the senior essay, but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

ART HISTORY

Students who plan to undertake graduate work should acquire a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

Requirements for the major in Art History with concentration in the Visual Arts:
Seven Art History courses including:

- BC 1001, 1002 *Introduction to the History of Art*
- An advanced seminar in art history
- One course in 19th-or 20th-century art
- ARS BC 3031 *Imagery and Form in the Arts*.

In addition, students must take a minimum of five studio art courses.

A senior project is required. This may take the form of a critical essay dealing with contemporary art or an exhibition of the student's work with an accompanying paper defining the artistic character of the work.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001, BC 1002, and one each in three of the following periods: ancient, medieval, Renaissance, baroque, and modern.

COURSES OF INSTRUCTION

ARH BC 1001x, 1002y Introduction to the History of Art An introduction to the art of the past with an emphasis on the variety of perspectives from which it may be studied. While mainly dedicated to the art of Western Europe, the course includes serious discussion of other cultures as well. There will be no attempt at coverage. Works of art from different periods will be selected for discussion in depth. Members of Barnard's art history faculty and other invited speakers contribute lectures in their fields of specialization. Autumn Term: Ancient, Medieval and Renaissance. Spring Term: Baroque, Modern and Contemporary. —K. Moxey, M. Werth, other instructors TBA. 4 points. M W 1:10-2:25 plus hour TBA.		
ARH V 3030x Arts of Africa 3 points. Not offered in 1994-95.		H
ARH V 3080y Pre-Columbian Art and Architecture —E. Pasztory 3 points. Th Th 2:40-3:55		H
ARH W 4130x The Indian Temple —V. Dehejia 3 points. M W 5:40-6:55		H
ARH W 3115x Art and Archeology of Prehistoric Greece 3 points. Not offered in 1994-95.		H
ARH W 3180x Art and Architecture of Ancient Egypt —J. Russell 3 points. Tu Th 4:10-5:25		H
ARH W 3127x History of Indian Art 3 points. Not offered in 1994-95.		H
ARH V 3201x Arts of China An introduction to the arts of China, ceramics, bronzes, painting, and sculpture, from the earliest farming cultures (ca. 5000 B.C.E.) to the end of the traditional period (ca. 1750 C.E.). —D. Sensabaugh 3 points. Tu Th 4:10-5:25		H
ARH V 3203y Arts of Japan A survey of Japanese art from the Neolithic through the Edo period, with emphasis on Buddhist art, scroll painting, decorative screens, and wood-block prints. —M. Murase 3 points. Tu Th 4:10-5:25		H

ARH W 4179x Art and Archaeology in Early Anatolia 3 points. Not offered in 1994-95.	H	
ARH V 3248x Greek Art and Architecture Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest. —R. Brilliant 3 points. Tu Th 2:40-3:55	H	
ARH V 3250y Roman Art and Architecture Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West. —Instructor TBA. 3 points. Tu Th 2:40-3:55	III H	
ARH W 4455y Byzantine Art from the Justinian to the Palaeologan Renaissance —T. Dale 3 points. Tu Th 10:35-11:50	H	
ARH V 4256y Art of the Greek Dark Ages 3 points. Not offered in 1994-95.	H	
ARH BC 3351x Early Christian and Early Medieval Art 3 points. Not offered in 1994-95.	III H	
ARH W 4315x The Making of Medieval Art, 650-900 AD The development of medieval art in the Germanic kingdoms of western Europe from the mid-7th century to the end of the Carolingian Empire. —J. Rosenthal 3 points. M W 1:10-2:25	H	
ARH BC 3352y Art of the Later Middle Ages Between the 11th and 14th centuries, the political, economic and cultural life of Europe underwent profound change. This course provides an exploration of the medieval visual arts within this dynamic framework. —S. Murray 3 points. M W 2:40-3:55	H	
ARH W 4313y English Romanesque Art 3 points. Not offered in 1994-95.	H	
ARH W 4356y Gothic Painting in France, 1200-1350 3 points. Not offered in 1994-95.	III H	
ARH W 3410x Italian Renaissance Architecture —J. Connors 3 points. Not offered in 1994-95.	H	
ARH W 3420x Italian Sculpture during the Renaissance —J. Beck 3 points. Tu Th 4:10-5:25	H	
ARH W 3400x Italian Renaissance Painting I 3 points. Not offered in 1994-95.	H	
ARH V 3437y Italian Renaissance Painting II —D. Rosand 3 points. M W 10:35-11:50	H	
ARH W 3416x Northern Renaissance Painting —D. Freedberg 3 points. M W 2:40-3:55	H	
ARH V 3475y Art and Culture of the Northern Renaissance 3 points. Not offered in 1994-95.	III H	
ARH W 4547y French Painting and the Birth of Art Criticism in the Ancien Régime, 1640s-1780s Prerequisites: BC 1001-1002 and one other upper level course or permission of the instructor. 4 points. Not offered in 1994-95.	III H	
ARH W 4480x Art in the Age of the Reformation 3 points. Not offered in 1994-95.	III H	
ARH W 4428x Italian Baroque Architecture 3 points. Not offered in 1994-95.	H	
ARH V 3500x Seventeenth-Century Art in Italy, France and Spain —H. Ballon 3 points. M W 1:10-2:25	H	
ARH BC 3520y Roman Baroque Art A survey of painting, sculpture and architecture in 17th-century Rome, when the city was at its peak of artistic production. Artists studied include Caravaggio, Bernini, Poussin, and Salvator Rosa. —S. McTighe 3 points. M W 10:35-11:50	III H	

ART HISTORY

ARH W 3603x

Spanish Painting: El Greco to Goya

—J. Tomlinson

Prerequisites: Art Humanities or upper-level course(s) in Spanish literature, Iberian studies.

3 points. Tu Th 10:35-11:50

H

ARH V 3660x

American Painting

An investigation of the ways in which cultural context, including American self-definitions and the land itself, shaped an ideology of the natural world in American art, with correspondences in philosophy, science and literature from its source in the Puritan ethic through transcendentalism and into the post-Darwinian period. —B. Novak

3 points. Tu Th 2:40-3:55

H

ARH W 4900x

Modern Landscape: Histories and Theories

A survey of the histories and theories of landscape in art from the 18th to the 20th century, with a focus on 19th-century Europe. —M. Werth

Prerequisite: permission of the instructor.

3 points. M W 10:35-11:50

III H

ARH C 3643y

The American City: A History of Urban Form and City Planning

3 points. Not offered in 1994-95.

H

ARH V 3748y

Eighteenth-Century Art

3 points. Not offered in 1994-95.

H

ARH W 3600x

19th-Century Art

Painting and sculpture in Western Europe from 1789-1900; Neo-classic, Romantic, Realist, Impressionist, and Post-Impressionist movements.

—A. Staley

3 points. M W 4:10-5:25

H

ARH W 3620y

19th-Century Visual Culture

—J. Crary

3 points. M W 2:40-3:55

H

ARH W 3650y

Twentieth-Century Art

The major trends and sources of 20th-century painting, sculpture, and architecture, with special emphasis on an understanding of the cultural environment and related developments. —B. Buchloh

3 points. Tu Th 2:40-3:55

H

ARH V 3670y

Modernism in America

3 points. Not offered in 1994-95.

H

ARH W 4840x

Art Since 1945

3 points. Not offered in 1994-95.

H

ARH W 3645y

Twentieth-Century Architecture and City Planning

3 points. Not offered in 1994-95.

H

ARH W 3883x

Architecture 1750-1890

3 points. Not offered in 1994-95.

H

AWS BC 3123x

Women and Art

Discussion of the methods necessary to analyze visual images of women in their historical, racial and class context and to understand the status of women as producers, patrons and audiences of art and architecture. —N. Kampen

3 points. Hours TBA.

I H

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH W 3912y

Exhibiting African Art

Prerequisite: Art History V 3030

4 points. Not offered in 1994-95.

H

ARH C 3916x

Nineveh and its Remains

4 points. Not offered in 1994-95.

H

ARH C 3910y

Art of the Han Dynasty

4 points. Not offered in 1994-95.

H

ARH V 3912y

The Art of Landscape Painting in China

—D. Sensabaugh

Enrollment limited to 15 students. Prerequisite: Art History V 3201 recommended but not required.

4 points. T 10:10-12:00

H

ARH C 3913y

Art in Periclean Athens

4 points. Not offered in 1994-95.

H

ARH C 3915y

Art and Politics in Augustan Rome

4 points. Not offered in 1994-95.

H

ARH C 3933x**Medieval Art at the Cloisters**

—T. Dale

4 points. F 2:10-4:00

H

ARH BC 3953x**The Art of Medieval Manuscript Illumination**

Study of the decoration and illustration of medieval manuscripts, including examination of original works in collections in New York City.

—J. Rosenthal

4 points. Tu 5:00-7:00

H

ARH BC 3921y**Reading the “Reality Effect”**

An analysis of the cultural values inscribed in Netherlandish “naturalism.” The course will concentrate on the historiography as well as the work of Robert Campin, Jan van Eyck and Roger van der Weyden. —K. Moxey

Prerequisite: Consent of the instructor.

4 points. Th 2:10-4:00

H

ARH C 3956y**Pieter Bruegel**

Examines the art of Bruegel in the context of the great social, religious, and historical upheavals of his time. —D. Freedberg

4 points. Th 4:10-6:00

H

ARH V 3933y**Arts in Early Medicean Florence**

—J. Beck

A reading knowledge of Italian is helpful.

4 points. M 2:10-4:00

H

ARH BC 3941y**Garden and Landscape in Renaissance Italy**

4 points. Not offered in 1994-95.

H

ARH C 3973x**Michelangelo**

—J. Connors

4 points. Not offered in 1994-95.

H

ARH BC 3974y**Matisse***Prerequisite: Permission of the instructor.*

4 points. Not offered in 1994-95.

III H

ARH BC 3975x**Landscape Painting in the 19th Century***Prerequisite: Permission of the instructor.*

4 points. Not offered in 1994-95.

III H

ARH BC 3963y**Caravaggio and Caravaggism in 17th-Century Painting**

Focus on the strange and violent realism of Caravaggio's images, which revolutionized

European painting around the turn of the 17th century. In addition to Caravaggio, we will look at the works of some of his followers, such as Artemisia Gentileschi, Jusepe Ribera, Georges de la Tour, and the Le Nains brothers. —S. McTighe

4 points. M 2:10-4:00

H

ARH BC 3964y**Poussin and Claude:****Landscape in 17th-Century Rome**

Preference is given to Art History majors or permission of the instructor is required.

4 points. Not offered in 1994-95.

H

AHS V 3905y**Crosscurrents in the Art and Literature of Spain 1550-1800***For Art History majors, no language requirement.*

For Spanish majors, completion of the language requirement; readings to be completed in the original.

3 points. Not offered in 1994-95.

H

ARH W 3505y**Dutch Art and Society in the 17th Century**

4 points. Not offered in 1994-95.

ARH C 3948x**19th-Century Criticism**

4 points. Not offered in 1994-95.

H

ARH W 3949x**Colloquium: Cubism***Prerequisite: at least one course in modern art.*

4 points. Not offered in 1994-95.

H

ARH V 3951x**The Image of the Buddha, from New York Collections**

—V. Dehejia

4 points. M 2:10-4:00

H

ARH BC 3982y**The Literature of Art**

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars (Foucault, Barthes, Huizinga, Wolfllin, Worringer, Berenson, Fry, Panofsky, Gombrich, Malraux, Kubler). —B. Novak

Enrollment limited to 16 students. Permission of the instructor required.

4 points. W 2:10-4:00

H

ARH C 3969y**Portraiture**

—R. Brilliant

4 points. M 10:10-12:00

H

ARH BC 3985x

Introduction to Connoisseurship

Factors involved in judging works of art, with emphasis on paintings: materials, technique, condition, attribution; identification of imitations and fakes; questions of relative quality. —M. Ainsworth
Enrollment limited to 12 senior majors. Permission of the instructor required.

4 points. F 10:00-12:00

H

ARH C 3994x

American Campus Design: Mirror of a Culture?

—B. Bergdoll

Enrollment limited to 12 students. Prerequisite: Coursework in modern architecture or American history and permission of the instructor.

4 points. Th 10:10-12:00

H

ARH BC 3962y

Romanticism

A study of selected topics. Romanticism in art and aesthetics, including its origins and development as well as its legacy and persistence throughout the 19th century, predominantly in France. —M. Werth
Enrollment limited to 15 students. Prerequisite: Art History W 3600 or permission of the instructor.

4 points. Th 4:10-6:00

H

ARH BC 3943x

Painting in Paris c. 1900

A study of selected topics in artistic production in Paris c. 1889-1909. Artists to be considered include Cézanne, Signac, Vuillard, Matisse, Derain, Picasso, and Braque. —M. Werth
Enrollment limited to 15 students. Prerequisite: Art History W 3600, W 3650, or permission of the instructor.

4 points. Th 4:10-6:00

H

ARH V 3976y

Victorian Painting, Print-making and Photography

—A. Staley

Enrollment limited to 12 students. Priority will be given to students who convince the instructor of their genuine interest in the material.

4 points. Not offered in 1994-95.

H

ARH W 3957y

Approaches to 19th-Century European Painting

Intended to familiarize students with a wide variety of methodologies that have been applied to the examination of 19th-century European painting.

—J. Tomlinson

4 points. M 10:10-12:00

H

ARH V 3980y

Frank Lloyd Wright

—H. Ballon

4 points. Th 10:10-12:00

ARH C 3979x

Mark Rothko's Early Work: Critical Reception

4 points. Not offered in 1994-95.

ARH C 3954y

Culture Wars: Politics and the Arts in Contemporary America

4 points. Not offered in 1994-95.

ARH C 3968x

Still-Life Painting, 1850-1900

—T. Reff

4 points. W 4:10-6:00

ARH W 3970y

Histories and Theories of Photography 1839-1939

This undergraduate seminar introduces the various historical and critical methods of thinking about photography from the earliest moments in 1839 and onward into the third decade of the 20th century. Throughout the seminar, an extensive presentation of the crucial photographic documents will complement the discussion of critical, historical and theoretical texts. —B. Buchloh
Prerequisite: Permission of instructor.

4 points. Not offered in 1994-95.

ARH BC 3999x, y

Independent Research

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chair's permission. —Staff

4 points. Hours TBA.

H

ARS BC 3031y

Imagery and Form in the Arts

The operation of imagery and form in dance, music, theatre, visual arts and writing; students are expected to do original work in one of these arts. Concepts in modernist theory will be explored. —J. Snitzer

3 points. M 2:40-4:30

III

M 6:00-7:00. Artsforum

Artsforum is an informal weekly meeting with professionals in the arts.

STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the department chairman. Classes are limited in size. Students who wish to enter the Columbia courses are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20.00 to \$45.00. For students other than those majoring in Art History with Visual Arts concentration, a maximum of four courses of studio work may be credited toward graduation; each of the second two must be matched with an art history course to be credited.

ARH BC 2003x, 2004y
Drawing in the Museum

An intensive drawing workshop geared to all levels from beginners to advanced. Includes live drawing, color theory and work in pastel. Drawing in the Museum will also examine the role played by the display of art and artifacts from all periods of history in the work of the cubists and surrealists as well as in that of such contemporary artists as Robert Smithson, Joseph Beuys, Marcel Broodthaers, Nancy Spero, Leon Golub, and others. —A. McCoy
Class features several Native American and African guest lecturers.

2 points. Th 2:10-6:00

ARH BC 2005x, 2006y, 2007x, 2008y
Painting

Basic understanding of the visual representation of space, color, and form are developed by setting specific tasks to be executed in oil painting. Class work will include drawing and painting from the model as well as still life arrangements. Emphasis is on the painting methods and techniques used historically in Realism, Expressionism, and Abstraction. Students are encouraged to develop oral and written skills through weekly discussions and assignments that accompany the examination of visual art. No prior experience is necessary. —J. Snitzer

2 points. W 2:10-6:00

ARH BC 2010x
Advanced Studio Painting

—J. Snitzer

3 points. M 2:10-6:00

STUDY ABROAD: REID HALL, PARIS

The following courses are offered at Reid Hall in Paris. For additional information, see the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Art History H 3320y
Medieval Art and Architecture

Lectures and discussion on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre Dame, Chartres, Sainte-Chapelle, and other sites. Overnight excursions to LeMans, Angeo, Chartres. —Y. Carré, A. Bratu

3 points.

H

Art History H 3430x, y
Renaissance and 17th-Century Art and Architecture

Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the Musée Conde, Fontainebleau, Château d'Ecouen Vaux-le-Vicomte, Versailles, and the Louvre, and other sites. Overnight excursions to Belgium, visits to Gent, Bruges. —Y. Carré, A. Bratu

3 points.

H

Art History H 3604x, y
Seminar on Contemporary French Art

Emphasis on one particular work, artist, or school. The topics for 1993-94 were *From Impressionism to Post-Impressionism* (Autumn) and *Questions of Color in 19th-and 20th-Century Painting* (Spring). —J. Ferrier

4 points.

H

Art History H 3682x
Issues in 19th-Century Art:
Edouard Manet and Modern Paris (in English)

For students in the Art History Program. Designed to establish a context for the study of American Expatriate Artists in Paris, 1900-1940 (the accompanying seminar), this course will focus on the career of Edouard Manet and the ways in which he influenced those who came to be known as the Impressionists who in turn welcomed American painters in the subsequent period. Museums, libraries, and historical sites in Paris are part of class materials. In addition, students will be asked to address in written work both stylistic and iconographic issues on the basis of readings of representative art criticism of Zola, Baudelaire, Mallarme, and Duranty. —S. Taylor-Leduc

3 points.

H

Art History H 3996x Seminar
American Expatriate Artists in Paris,
1900-1940 (in English)

For students in the Art History Program. An examination of the lives and works of selected American artists who came to Paris in search of a place where they could give shape to a new art form and find recognition. Among the topics to be considered: the multiple exchanges between American and French artists; the influence of Gertrude Stein's salon and art collection; and others. (For complete description see Reid Hall Bulletin 1994-95).

—J. Rotily

4 points.

H

Associate Professors: Irene Bloom (Wm. Theodore & Fanny Brett de Bary & Class of '41 Collegiate Associate Professor in Asian Humanities, and Chair), Afsaneh Najmabadi¹ (Women's Studies)

Assistant Professors: Keiko Ikeda¹, Rachel Fell McDermott

Other officers of the University offering courses listed below:

John Mitchell Mason Professor Emeritus and Special Service Professor: William Theodore de Bary

Professors: Paul Anderer, Peter J. Awn (Religion), Richard Bulliet (History), Kathleen R. F. Burrill, Pierre Cachia (Senior Scholars Program), Chou Wen-chung (Music), Myron Cohen (Anthropology), Dieter Christensen (Music), Ainslie T. Embree (Senior Scholars Program), Carol N. Gluck (History), John S. Hawley (Religion), Robert Hymes, Donald Keene, Gari K. Ledyard, Maan Madina, John Meskill (Senior Scholars Program), Dan Miron, Miyeko Murase (Art History and Archaeology), Theodore Riccardi, Barbara Ruch, George Saliba, Conrad Schirokauer (Senior Scholars Program), Henry Smith, Robert A. F. Thurman (Religion), Arthur Tiedemann, Philip B. Yampolsky, Ehsan Yarshater, Madeleine Zelin

Adjunct Professor: Morris Rossabi

Associate Professors: Vidya Dehejia (Art History and Archaeology), Frances Pritchett, Haruo Shirane, Mark Van De Mierop, David Wang

Assistant Professors: Ryuichi Abe (Religion), Hamid Dabashi, Daniel Ferguson (Music), Nili Gold, Ayesha Jalal (History), Matthew Kapstein (Religion), Richard Lufrano (History), Gurinder Singh Mann (Religion), Paul Rouzer, David Sensabaugh (Art History and Archaeology), Michael Tsien, Gauri Viswanathan (English and Comparative Literature), Angela Zito (Religion).

Senior Lecturer: Jeanette Wakin

Lecturers: David Lelyveld, Marsha Wagner

¹ Absent on leave 1994-95

The primary aim of Asian and Middle Eastern Cultures is to introduce major Asian civilizations, and their works and values as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian*; Arabic W 1122, *Intermediate Arabic*; Armenian W 1124, *Intermediate Armenian*; Central Asian W 1110, *Intermediate Tajik*; Central Asian W 1122, *Intermediate Uzbek*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi-Urdu W 1122, *Intermediate Hindi-Urdu*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Modern Persian*; Korean W 1202, *Intermediate Korean*; Nepali W 1122, *Intermediate Nepali*; Sanskrit G 6102, *Intermediate Sanskrit*; or Turkish W 1122, *Intermediate Turkish*.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chair of Asian and Middle Eastern Cultures.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during a week *before* classes begin—contact the Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (602 Kent). All students wishing to enter the Hebrew

language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *Monday-Friday, 10:00-3:00 during August* in 602 Kent Hall.

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Asian and Middle Eastern Cultures is advised to consult a member of the department in the spring term of her first year.

To major in Asian and Middle Eastern Cultures, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track

The requirements for the major are as follows:

1) Language Requirement:

Three years of Chinese, Japanese, or Korean (completion of the 4005-4006 level), or the proficiency equivalent (to be demonstrated by a placement examination).

2) Introductory Courses:

Asian Humanities V 3400 Colloquium on Major Texts (4 points)
and

Two of the following survey courses:

Asian Civilizations-Middle East	V 3001	Introduction to Major Topics in Asian Civilizations: The Middle East and India
Asian Civilizations-East Asia	V 3002	Introduction to Major Topics in Asian Civilizations: East Asia
Asian Civilizations	V 3559	Introduction to the Civilization of China
Asian Civilizations	V 3361	Introduction to the Civilization of Japan
Asian Civilizations	V 3363	Introduction to the Civilization of Korea

3) **Disciplinary Courses:** three courses. These courses are to be selected from a single academic discipline which each student must choose upon entering the major from the following: history, literature, philosophy, religion, art history, anthropology, political science, sociology, or economics. Normally, one of these courses will be a basic introductory or methodology course, and the other two will be in East Asia-related courses in the discipline. Courses in closely related disciplines may be substituted with the approval of the adviser. Those majors specializing in history should take *Histriography of East Asia* (East Asian W 4103), and those specializing in literature should take *Critical Approaches to East Asian Literature* (East Asian W 4101); these two courses are offered in the spring semester and should normally be taken in the junior year.

4) **Elective Courses:** Two courses of East Asia-related courses to be chosen in consultation with the adviser.

5) **Senior Paper:** Each student is expected to prepare a research paper or a translation with commentary from an East Asian language. The paper should be in the chosen disciplinary field and will be written in consultation with an appropriate faculty adviser. The paper is prepared in two stages, first by enrolling in the spring of the junior year in *Research in East Asian Studies* V 3999y, and then in the senior year in *Senior Seminar: China* (East Asian W 3901x-3902y); or *Senior Seminar: Japan or Korea* (East Asian W 3903x-3904y); or, with the adviser's approval, *Asian Studies BC 3999, Independent Study*.

Note that in all East Asian language courses, the minimum grade required to advance from one level to the next is B-.

The Middle East or South Asian Track

A minimum of 12 courses is required, including:

Asian Humanities

V 3399

Colloquium on Major Texts

Two of the following courses:

Asian Civilizations-Middle East

V 3001x

Introduction to Major Topics in Asian Civilizations: The Middle East and India

Asian Civilizations-Middle East

V 3003

Introduction to Islamic Civilization

Asian Civilizations-Middle East

W 4210

Indian Civilization

Four to six courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser. A minimum of 6 courses chosen as a concentration. The concentration may be in the languages and cultures of ancient Semitic, Arabic, Armenian, Central Asian, Hebrew, Indic, Iranian, or Turkish. The courses required in each of the concentrations and other details will be explained by the department chair. They will include one advanced course or independent study leading to a senior thesis, to be written under the supervision of an appropriate faculty member, chosen in consultation with the adviser.

The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. Also see the note on Graduate Courses at the end of this section.

No minor is offered in Asian and Middle Eastern Cultures.

COURSES OF INSTRUCTION

COURSES IN ASIAN CIVILIZATIONS

Asian Civilizations-Middle East AEA V 3001x
Introduction to Major Topics in Asian Civilization: The Middle East and India

Interdisciplinary and topical approach to major issues and phases of Asian civilizations and their role in the contemporary world. —H. Dabashi and G. Visnawathan

4 points. Tu Th 2:40-3:55

plus an additional hour TBA.

II S

Asian Civilizations-East Asian AEA V 3002x or y
Introduction to Major Topics in Asian Civilization: East Asia

An interdisciplinary and topical approach to major issues and phases of East Asian civilizations and their role in the contemporary world. —x: W.T. de Bary, S. Linton, A. Tiedemann, and staff; y: W. T. deBary, S. Linton, A. Tiedemann, and staff

4 points. Tu Th 10:35-11:50

plus additional hour TBA.

II S

Asian Civilizations-Middle East AEA V 3003y
Introduction to Islamic Civilization

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions from its pre-Islamic Arabian setting to the present. —G. Saliba

3 points. M W 11:00-12:15

plus an additional hour TBA.

II S

Asian Civilizations-Middle East AEA W 4210x
Indian Civilization

3 points. Not offered in 1994-95.

II S

Asian Civilizations-East Asian AEA V 3359x, y
Introduction to East Asian Civilizations: China

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.

3 points. x: Tu Th 1:10-2:25 —M. Tsin

y: M W 2:40-3:55 —I. Bloom

plus an additional hour TBA.

II S

Asian Civilizations-East Asian AEA V 3361x, y
Introduction to East Asian Civilizations: Japan

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature, and the national arts.

3 points. x: Tu Th 11:00-12:15 —H. Smith

y: M W 11:00-12:15 —A. Tiedemann

plus an additional hour TBA.

II S

Asian Civilizations-East Asian AEA V 3363y
Introduction to Asian Civilizations: Korea

The evolution of Korean society and culture, with special attention to Korean values as reflected in thought, literature and the arts. —G. Ledyard

3 points. Tu Th 2:40-3:55

II S

Asian Civilizations ASC W 4320y **Human Rights and Social Justice in** **Comparative Perspective**

The seminar considers issues of human rights through cross-national and cross-cultural studies of modern South Asia (India, Pakistan, Sri Lanka) and China. —A. Embree and M. Wagner
4 points. M 4:10-6:00 II S

Asian Studies ASN V 3379y **Readings in Asian Studies**

3 points. Not offered in 1994-95.

Asian Studies-Religion ASR V3974y **Hindu Goddesses**

Study of a variety of Hindu goddesses, focusing on representative figures from northern, southern, eastern, and western India and on their iconography, associated powers, and regional rituals. Materials are drawn from textual, historical, and field studies, and discussion includes several of the methodological controversies involving interpretation of goddess worship in India. —R. McDermott

Prerequisite: One course in India culture or religion or permission of instructor.

4 points. W 4:10-6:00 II H

Asian Studies-Religion ASR V 3772x **Perspectives on Evil and Suffering in World Religions**

Exploration of the problem of evil and suffering in Christianity, Judaism, Hinduism, and Confucianism, with attention to such questions as what is "evil", why it exists, how suffering fits into the religious world view, and how religious people cope with threats to their analytics capacities, powers of endurance, and moral insight. Draws on classical texts, myths, and modern field work. —R. McDermott

3 points. Tu Th 9:10-10:25 I H

Asian Studies ASN V3582y **Chinese Political Thought**

3 points. Not offered in 1994-95. II H

COURSES IN ASIAN HUMANITIES

Asian Humanities AHU V 3399x,y V 3400x, y **Colloquium on Major Texts**

Readings in translation and discussion of texts of Middle Eastern, Indian, Chinese, and Japanese origin, including (V 3399): the *Qur'an*, Islamic philosophy, Sufi poetry, the *Upanishads*, Buddhist sutras, the *Bhagavad Gita*, Indian epics and drama, Gandhi's autobiography; (V 3400): the *Analects* of Confucius, Mencius, Lao Tzu, Chuang Tzu, the *Lotus Sutra*, *Dream of the Red Chamber*, *Tale of Genji*, Zen litera-

ture, Noh plays, *bunraku* puppet plays, and Chinese and Japanese poetry. (Asian Humanities V 3399-3400 form a sequence but either may be taken separately. V 3399 may also be taken as part of a sequence with Asian Humanities V 3830.)

4 points II H

3399x: Sec. 1 M 4:10-6:00 —W.T. de Bary,
E. Yarshater

Sec. 2 W 4:10-6:00 —R. McDermott
y: Tu 4:10-6:00 —G.S. Mann

3400x: Sec 1 W 4:10-6:00 —C. Laughlin
y: Sec. 1 M 4:10-6:00 —W.T. de Bary

Sec. 2 Tu 4:10-6:00 —I. Bloom

Sec. 3 W 4:10-6:00 —P. Anderer

Sec. 4 Th 4:10-6:00 —P. Rouzer

Asian Humanities AHU V 3830x **Colloquium on Modern East Asian Texts**

Exploration of modern East Asian traditions through intensive reading of literary masterpieces by Lu Xun, Shen Congwen, Akutagawa Ryunosuke, Kawabata Yasunari, Hyon Ching-gon, Choi In-hoon, etc. Emphasis on cultural/intellectual issues and their manifestations in literary forms. Knowledge of the original languages is not required. —D. Wang

4 points. W 9:00-10:50 II H

Asian Humanities AHU W 4310x **Colloquium on Modern South Asian Texts**

Exploration of modern South Asian self-images through the work of A.K. Coomaraswami, Gandhi, Premchand, Raja Rao, Anatha Murthy, Ghalib, Faiz, etc. Emphasis on cultural/intellectual issues and their manifestations in literary form. —F. Pritchett
Permission of the instructor required.

3 points. W 9:00-10:50

plus an additional hour TBA. II H

Asian Humanities-Music AHM V 3320y **Introduction to the Music of East Asia and Southeast Asia**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Ferguson

3 points. M W 6:10-8:00

One hour is a listening hour. II H

Asian Humanities-Music AHM V 3321x **Introduction to the Music of India and West Asia**

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Christensen

3 points. M W 6:10-8:00

One hour is a listening hour. II H

Asian Humanities AHU V 3340x, y
Masterpieces of Art in
China, Japan and Korea

Selected masterpieces of painting, sculpture and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion and literature.

3 points.

x: M W 6:10-7:25—A. Jing

y: Sec. 1 M W 1:10-2:25—D. Delbanco

Sec. 2 Time and instructor TBA. II H

Asian Humanities AHU V 3342x, y
Masterpieces of Islamic and Indian Art

Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India.

3 points. x: Tu Th 6:10-7:25 —J. Cummin.

y: Time TBA.—V. Dehejia II H

COURSES IN THE MAJOR

East Asian EAS W 3901x-3902y
Senior Seminar: China

Senior paper seminar, required of all majors specializing in China. —Staff

Senior majors only.

2 points (W 3901x); 1 point (W 3902y).

East Asian EAS W 3903x-3904y
Senior Seminar: Japan or Korea

Senior paper seminar, required of all majors specializing in Japan or Korea. —Staff

Senior majors only.

2 points (W 3903x); 1 point (W 3904y).

East Asian EAS V 3999y
Research in East Asian Studies

Recommended for all majors in the East Asian track of Asian and Middle Eastern Cultures.

Introduces students to the disciplinary methods and materials of East Asian studies, particularly to prepare them for the senior seminar. —M. Tsin, D. Wang and Staff

1 point. Hour TBA.

Asian Studies ASH BC 3999x, y
Independent Study

Specialized reading and research projects planned in consultation with members of the Asian and Middle Eastern Cultures teaching staff. —Staff

Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points. Hours TBA.

EAST ASIAN

Anthropology-Asian Studies AAS V3500x
Contemporary Japanese Society

(Replaces Self and Lifecourse in Japan)

3 points. Not offered in 1994-95. II S

Anthropology-Asian Studies AAS V 3501y
Women in Japanese Society

3 points. Not offered in 1994-95. II S

Asian Studies ASN V 3910y
The Japanese Family

3 points. Not offered in 1994-95. II S

Anthropology-Asian Studies AAS V 3290y
Asian-American Experience

3 points. Not offered in 1994-95. I S

Art History ARH V 3201x
Arts of China

A survey of major arts of ceramics, bronzes, jades, painting, and calligraphy. Museum laboratory sessions. —D. Sensabaugh

3 points. Tu Th 4:10-5:25 II H

East Asian EAS V 3315y
Literature and Film in Modern China

3 points. Not offered in 1994-95. H

East Asian EAS V 3615x
Japanese Literature and Film

Analysis of major Japanese literary texts and films, with emphasis on traditional versus modern aesthetics, and on the relation between art and society, especially in 20th-century Japan. —P. Anderer

3 points. M W 4:10-6:00 II H

East Asian EAS V 3623y
The World of the Shining Prince

3 points. Not offered in 1994-95. H

East Asian EAS W 3334x
Introduction to Japanese Literature

3 points. Not offered in 1994-95. H

East Asian EAS V 3920x
The Literary World of the Confucian Gentleman

An examination of significant works of Chinese literature in English translation from 1050-1830, with particular attention to their historical contexts. Emphasis will be placed on the traditional cultural arts of the literatus (poetry, painting) and on the more popular literary forms (fiction, drama) that the literatus coopted for his own purposes. —P. Rouzer

3 points. W 4:10-6:00 II H

ASIAN AND MIDDLE EASTERN CULTURES

East Asian EAS V 3210x

Korean Lives

An examination of key events, institutions, and personalities in Korean history from the 18th to the 20th centuries, as seen through Korean biographical literature in translation. The emphasis is on individual responses to the challenges and problems Korea has faced in its path from Confucian kingdom to modern industrial state. —G. Ledyard
3 points. Tu Th 2:40-3:55 II H

East Asian EAS V 3565y

The Erotic Tradition in Classical Chinese Literature

3 points. Not offered in 1994-95. II H

Chinese CHI W 3550x

Modern Chinese Literature and Its Classical Tradition

—D. Wang
3 points. Not offered in 1994-95. II H

East Asian EAS V 3635x

The Female Voice in Japanese Literature, Religion, and Culture

3 points. Not offered in 1994-95. H

History-Japanese HIJ W 3600x

World War II in American and Japanese History

—C. Gluck
3 points. Not offered in 1994-95. H

East Asian EAS V 3650x

The Family in Chinese History

The history of the Chinese family, its changing forms and cultural expressions: marriage and divorce; parent and child; clan and lineage; ancestor worship; the role of women; the relation of family and state; Western parallels and contrasts. —R. Hymes
3 points. Tu Th 2:40-3:55 II H

History HIS BC 3443y

Images of China and America

—R. Lufrano
4 points. Tu 4:10-6:00 II S

History HIS BC 1021x

Late Imperial China, 1550-1900

—R. Lufrano
3 points. M W 2:40-3:55

History HIS BC 1022y

China in the Twentieth Century

—R. Lufrano
3 points. M W 2:40-3:55

History HIS BC 3430x

The Cultural Revolution in China

—Instructor TBA.
Limited enrollment. Preregistration required.
4 points. Tu 4:10-6:00

East Asian EAS V 3580y

Dominance, Resistance and Political Culture in Modern China

3 points. Not offered in 1994-95. II S

East Asian EAS W 4101y

Critical Approaches to East Asian Literature

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose. —D. Wang
3 points. Tu Th 11:00-12:15 H

East Asian EAS W 4103y

Historiography of East Asia

Major issues in the practice of history illustrated by critical reading of important historical work on East Asia. —M. Tsin
3 points. W 2:10-4:00 S

History-Korean HIK W 4031x

The History of Korea to 1636

An introduction to the development of Korean civilization from the Neolithic Age to 1636. —G. Ledyard
3 points. Tu Th 1:10-2:25

History-Korean HIK W 4033y

The History of Modern Korea

3 points. Tu Th 1:10-2:25 S

Religion REL V 2640x

Chinese Religious Traditions

—A. Zito
3 points. Tu Th 10:35-11:50 II H

MIDDLE EAST AND SOUTH ASIA

Hebrew W 3410x

Introduction to Modern Hebrew Culture

—D. Miron
3 points. M W 2:40-3:55 H

Islamic-Religion ISR V 2630y

Islam

3 points. Not offered in 1994-95. II H

Religion REL V 2600x

Hinduism

—J. Hawley
3 points. Not offered in 1994-95.

COMPARATIVE COURSES

Middle East-Religion MDR W 3030y
Poetics of the Sacred: A Cross-Cultural Investigation into the Nature of Mysticism and Poetic Language

4 points. Not offered in 1994-95.

Political Science POS BC 3414y
Women in Third-World Politics

—L. Calman

4 points. Th 2:10-4:00

I S

Religion REL V 1102y
Introduction to the Study of Eastern Religions

—A. Zito

3 points. M W 9:10-10:25

H

Also note offerings under departments of Anthropology, Art History, History, Political Science and Religion.

ASIAN LANGUAGE COURSES

Language and literature courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for all the languages offered and detailed descriptions of courses.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.

BIOLOGICAL SCIENCES

1203 Altschul Hall
General Biology Course Office: 911 Altschul Hall

854-2437

854-2153

Professors: Philip V. Ammirato (Chair), Paul E. Hertz

Associate Professors: Julia Chase-Brand¹, James P. Mohler¹

Assistant Professors: Nathan M. Chu, Ruth E. McChesney, Bruce A. O'Gara², Jeanne S. Poindexter, Helen J. Young¹

Visiting Assistant Professors: Cynthia Handler, Paul Kelly, Clifford Kolba

General Biology Laboratory Staff:

Director: Alice M. Walrath

Associate Director: Anne Newland

Laboratory Associates: John Cozza, Margery Doscher, Mary Katz, Wanda Knauss, Tasneem Qamar, Harriet Waks

Other officers of the University offering courses listed below:

Professors: Walter J. Bock, Alexander A. Tzagoloff, Geoffrey Zubay

Assistant Professor: Teri Melese, T. Hazelrigg

¹Absent on leave 1994-95

²Absent on leave Autumn term

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. Some of the most exciting issues of our era, such as those relating to biotechnology, genetic engineering, environmental problems, and health, require a strong background in biology. At Barnard, courses cover molecular biology; the fine structure, development and physiology of cells, tissues, and organs; the embryology, behavior and structure of organisms; and the ecology and evolution of populations and communities.

Many students specialize in Biology in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many sub-fields of biology leading to a teaching and/or research career. Still others plan futures as scientific writers, illustrators or photographers, researchers in industry or government or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, PCR thermocycler, a chemostat, and a computer-based neurophysiology data acquisition system. The facilities include an autoradiography facility, constant temperature rooms, darkrooms, an animal care facility, a workshop, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, the Maura Shannon Barrett '83 Internship Fund, or the Donald and Nancy Ritchie Fund. The department maintains a file of summer courses and research stations, and information on available funds can be obtained in the department office. Support for participation or assistance in the research of the Barnard faculty is available from research grants and program grants. Advanced students may also work as Teaching Assistants in introductory courses.

The Barnard Biology Department offers several options at the introductory level; students should select courses on the basis of their prior preparation and background in Biology.

For students with little prior experience, BC 1001x provides an appropriate introduction to important concepts in the field. Biology BC 1002y expands upon that introduction with detailed discussions of three important topics. Both BC 1001 and BC 1002 include a laboratory component and together fulfill Barnard's laboratory science requirement (though neither course receives credit for the Biology major). Alternatively, a student who is interested in a broader treatment of the field in preparation for advanced study in Biology may enter the 2000-level sequence (BC 2001y) immediately after completing BC 1001x.

However, students who enter Barnard with a strong background in Biology should enroll directly in the 2000-level sequence. The four 2000-level courses (two lecture courses and two laboratory course) comprise an introduction that is suitable for potential Biology majors, majors in the other sciences, and students interested in the health professions. The 2000-level introductory courses are prerequisites for upper-level courses in the department. Either BC 2001 or BC 2002 may be taken first.

Students who have passed the Advanced Placement examination with a grade of 4 or 5 and evidence of satisfactory laboratory experience are exempt from BC 1001 and receive 3 points of AP credit. A laboratory notebook may be submitted to the department for a possible 1-1/2 points of additional credit. Students who receive AP credit with a grade of 4 or 5 may complete the science requirement with BC 1002. If a student anticipates further study of Biology or other natural sciences, she should instead enroll in the 2000-level sequence; completion of either BC 2003 or BC 2004 and either BC 2001 or BC 2002 will fulfill the science requirement for a student who receives AP credit.

REQUIREMENTS FOR THE MAJOR

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a year of introductory biology, including the laboratory (BC 2001, 2002, 2003, 2004, or equivalent). Students who enrolled at Barnard before September 1992 are not required to take BC 2004.

Three Core Lecture Courses. One lecture course must be selected from each of the following three pairs:

- 1. BC 3302 *Molecular Biology* or BC 3310 *Cells and Tissues*
- 2. BC 3340 *Plant Physiology* or BC 3360 *Mammalian Physiology*
- 3. BC 3370 *General Ecology* or BC 3372 *Population and Community Ecology*

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200 level are particularly appropriate for sophomores who have completed *General Biology*; courses at the 3300 level are more advanced and may require additional prerequisites.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a corequisite or prerequisite; such requirements are specified in the course descriptions below. A student may count a Guided Research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of Guided Research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of \$40 per course. Appropriate biology laboratories at

Columbia University may be used to satisfy the lab requirement, as may those taken at other institutions, the latter with permission of the department chair.

Senior Seminar or Individual Research with Seminar. Students must enroll in one section of the *Senior Seminar* (BC 3590) or complete a Guided Research project in the laboratory of a member of the Barnard Biology Department (BC 3591), including concurrent participation in the *Research Seminar* (BC 3595). If a student completes a Guided Research project in lieu of the senior seminar, she may not also use a Guided Research project to fulfill part of the laboratory requirement.

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required (Chemistry BC 1601, BC 3328, and BC 3230).

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point average and faculty recommendations, to determine the recipients of departmental honors.

Participation in a special project Biology BC 3591 or BC 3592 is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report written in journal style. A Guided Research project (BC 3591) may be used in lieu of a Senior Seminar or an Elective Laboratory to fulfill Biology major requirements; however, Guided Research that is to be counted toward the major requires concurrent enrollment in the Research Seminar (BC 3595). Only one term of Guided Research will receive credit toward the major. Intradepartmental projects are graded by letter grade or P*/D/F at the option of the faculty sponsor. Extradepartmental projects (BC 3592) receive only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

Entering first-year students who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 2001, 2002, 2003, and 2004 in their first year. Some upper level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and in addition, one year each of calculus and physics; a course in statistics is also recommended. Students interested in behavioral biology may also wish to enroll in *Physiological Psychology* (Psychology BC 1117 or BC 1119); although the course does not fulfill any Biology major requirement, the grade for this course may be included in the Biology major average. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office during their first two years and should take the MCAT exam at the end of their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of introductory biology (BC 2001, BC 2002, BC 2003, BC 2004), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Environmental Science, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1001x

Revolutionary Concepts in Biology

An exploration of the major discoveries and ideas that have revolutionized the way we view organisms and understand life. The basic concepts of cell biology, anatomy and physiology, genetics, evolution, and ecology will be traced from seminal discoveries to the modern era. The laboratory will develop these concepts and analyze biological diversity through a combined experimental and observational approach. *(Course does not fulfill Biology major requirements or pre-medical requirements.)* —P. Ammirato

Enrollment in laboratory sections limited to 16 students per section.

4.5 points. Lecture M W F 9:00-9:50

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,

M Tu or Th 1:10-4:00 or W 2:10-5:00

BIO BC 1002y

Contemporary Issues in Biology

An exploration of modern biology as it pertains to contemporary issues. The first module examines the biology of viral pathogens of animal cells, in particular the virus responsible for AIDS. The second module considers human physiology and health, focusing on major health issues. The third module explores population growth and resource use, emphasizing the uniqueness of human populations. Lab exercises introduce biological techniques for studying these topics. *(Course does not fulfill Biology major requirements or pre-medical requirements.)* —R. McChesney, P. Hertz, B. O'Gara

Prerequisites: BIO BC 1001, or AP score of 4 or 5, or equivalent preparation and background. Enrollment in laboratory sections limited to 16 students per section.

4.5 points. M W F 9:00-9:50

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,

M Tu or Th 1:10-4:00 or W 2:10-5:00

BIO BC 1099y

Science and Scientists

Discussions led by research scientists from Barnard, Columbia, and other institutions. Topics include identifying research problems and conducting scientific research as well as recent conceptual and technical developments in science. —P. Hertz

Enrollment limited to 16 first- & second-year students. 1 point. Th 2:10-4:00

BIO BC 2001y

Molecular, Cellular, & Developmental Biology

A detailed introduction to cellular and subcellular biology; cell structure and function; biochemical

analysis of metabolic and catabolic pathways; molecular biology and the biogenesis of cell components; genetics and the biology of inheritance; patterns of development, embryology through neuralation. *(Course suitable for fulfillment of pre-medical requirements.)* —J. Poindexter

Prerequisites: BIO BC 1001 or AP score of 4 or higher or equivalent preparation.

3 points. M W F 9:00-9:50

BIO BC 2002x

Physiology, Ecology, and Evolutionary Biology

A detailed introduction to biological phenomena above the cellular level; development, anatomy, and physiology of plants and animals; physiological, population, behavioral, and community ecology; evolutionary theory; analysis of micro-evolutionary events; systematics. —P. Hertz

(Course suitable for fulfillment of pre-medical requirements.) Prerequisites: BIO BC 1001 or AP score of 4 or higher or equivalent preparation.

3 points. M W F 9:00-9:50

BIO BC 2003x

Biodiversity Laboratory

A laboratory-based introduction to the five kingdoms of living organisms; anatomy, physiology, evolution, and systematics of major groups; laboratory techniques for studying specialized adaptations. —P. Kelly

(Course suitable for fulfillment of pre-medical requirements.) Prerequisites: BIO BC 1001, or AP score of 3 or higher. Enrollment limited to 16 students per section.

2 points. M 10:00-10:50 or F 1:10-2:00

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,

M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 2004y

Biological Experimentation Laboratory

A laboratory-based introduction to experimental biology; classic and modern approaches to the investigation of growth, development, reproduction, heredity, environmental influences, enzymes, and correlation between structure and function. Experimental design, practical techniques, and data interpretation. —N. Chu

(Course suitable for fulfillment of pre-medical requirements.) Prerequisites: BIO BC 1001 or AP score of 3 or higher. Enrollment limited to 16 students per section.

2 points. M 10:00-10:50 or F 1:10-2:00

Lab: Tu or Th 9:00-11:50, W or F 10:00-12:50,

M Tu W or Th 1:10-4:00 or 2:10-5:00

BIO BC 3200x

Genetics

Genetics of eukaryotes, prokaryotes and viruses, with special emphasis on human genetics; segregation; recombination, mapping, and the measurement of linkage; cytogenetics; population genetics; molecular genetics. —N. Chu

Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent. One semester of chemistry is recommended. 3 points. M W F 9:00-9:50 plus one hour required recitation TBA.

BIO BC 3201x

Laboratory in Genetics

Exercises in the use of *Drosophila*, *Neurospora*, bacteria, and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics. —N. Chu

Prerequisite or corequisite: BC 3200 or the equivalent. Enrollment limited to 16 students per section. Recitation and laboratory. 2 points. W 1:10-6:00

BIO BC 3240x

Plant Biology

Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.

3 points. Not offered in 1994-95.

BIO BC 3241x

Laboratory in Plant Biology

Prerequisite or corequisite: BC 3240. Enrollment limited to 16 students.

2 points. Not offered in 1994-95.

BIO BC 3250x

Invertebrate Zoology

The biology of invertebrate animals: comparative structure and physiology of the cells, tissues, and organs of invertebrates; the development, behavior and evolution of these animals, stressing their adaptations to marine, freshwater, and terrestrial habitats. —C. Kolba

Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent.

3 points. Tu Th 10:35-11:50

BIO BC 3251x

Laboratory in Invertebrate Zoology

Prerequisite or corequisite: BC 2001, 2002, 2003, 2004 or the equivalent. BC 3250 recommended as a prerequisite or corequisite, but is not required.

Enrollment limited to 24 students. Alternate years. 3 points. Not offered in 1994-95.

BIO BC 3252x

Animal Development

An introduction to animal development stressing the mechanisms that control developmental processes. Topics include spermatogenesis, oogenesis, fertilization, cleavage, establishment of the body plan, cellular events in gastrulation and morphogenesis, and control of gene expression in development. —R. McChesney

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent

3 points. Tu Th 6:10-7:25

BIO BC 3260y

Vertebrate Zoology

A systematic survey of the Phylum Chordata: fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding and behavior. —P. Kelly

Prerequisite: BC 2001, 2002, 2003, 2004, or the equivalent. Alternate years.

3 points. Tu Th 9:10-10:25

BIO BC 3280y

Animal Behavior

Introduction to animal behavior; physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), ethological approaches to behavior (communication, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, behavioral ecology, sociobiology). —C. Handler

Prerequisite: BC 2001, 2002, 2003, 2004, or one year of psychology.

3 points. M W F 10:00-10:50

BIO BC 3302y

Molecular Biology

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development. —N. Chu

Prerequisites: BC 2001 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.

3 points. M W F 9:00-9:50

BIO BC 3303y

Laboratory in Molecular Biology

Prerequisite or corequisite: BC 3302 or permission of the instructor. Limited to 18 students. Alternate years.

3 points. Not offered in 1994-95.

BIO BC 3305y

Project Laboratory in Molecular Biology

Prerequisite: BC 3302 or permission of the instructor; Enrollment limited to 12 students. Alternate years. 5 points. Not offered in 1994-95.

BIO BC 3307x

Project Laboratory in Plant Molecular Biology

Prerequisites: Bio BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. Upper level laboratory recommend BC3321, 3343 or 3341 and permission of the instructor. Enrollment limited to 16 students. Offered in alternate years. 5 points. Not offered in 1994-95.

BIO BC 3310y

Cells and Tissues

Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; electron microscopic studies of the structure of cell organelles; modern concepts of function. —C. Kolba
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent and one advanced biology course. A year of chemistry, including organic chemistry, is required. 3 points. M W F 11:00-11:50

BIO BC 3311y

Laboratory in Cell and Tissue Biology

Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques. —C. Kolba
Prerequisite or corequisite: BC 3310 or the equivalent. Enrollment limited to 16 students. 3 points. Tu 1:10-6:00

BIO BC 3320x

Microbiology

Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology and metabolism; genetic mechanisms and interrelationships in bacteria. Some aspects of applied microbiology, the role of microorganisms in natural processes, aspects of pathogenicity, and immunity to disease. —J. Poindexter
Prerequisites: BC 2001, 2002, 2003, 2004 and one semester of organic chemistry. 3 points. M W F 11:00-11:50

BIO BC 3321x

Laboratory in Microbiology

Provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small

independent project. —J. Poindexter

Prerequisite or corequisite: BC 3320. Enrollment limited to 16 students. Recitation and laboratory 3 points. Tu 1:10-4:00 and Th 1:10-3:00

BIO BC 3340y

Plant Physiology

Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence and death. —P. Ammirato
Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one term of organic chemistry. 3 points. Alternate years. Tu Th 9:10-10:35

BIO BC 3341y

Laboratory in Plant Physiology

Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction. CO₂ compensation points and respiration rates. Extraction, separation and identification of amino acids, nucleic acids and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis. —P. Ammirato
Prerequisite or corequisite: BC 3340. Alternate years. 3 points. W 1:10-6:00

BIO BC 3342y

Plant Development

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. Alternate years. 3 points. Not offered in 1994-95.

BIO BC 3343y

Laboratory in Plant Development

Prerequisite or corequisite: BC 3342. Enrollment limited to 16 students. Alternate years. 3 points. Not offered in 1994-95.

BIO BC 3360x

Mammalian Physiology

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, nervous and immune systems in animals; emphasis on higher vertebrates and humans. —C. Handler
Prerequisites: Three semesters of biology and one semester of organic chemistry. 3 points. Tu Th 9:10-10:25

BIO BC 3361x

Laboratory in Animal Physiology

Physiographic recording of cardiac, respiratory and muscle function. Other exercises include enzyme kinetics, active transport and exercise physiology. —C. Handler

Prerequisite: BC 3360. *Enrollment limited to 16 students.*

3 points. Recitation and laboratory W 1:10-6:00 or Th 1:10-6:00

BIO BC 3362y

Neurobiology

Structure and function of neural membranes; ionic basis of membrane potential and action potential; synaptic transmission and neurochemistry; sensory transduction and processing; reflexes and spinal cord physiology; muscle structure and function; neuronal circuitry; nervous system development. —B. O'Gara

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent, and one semester of organic chemistry. *BIO BC 3360 or PSY BC 1117 or BC 1119 is recommended.* *3 points. Tu Th 10:35-11:50*

BIO BC 3363y

Laboratory in Neurobiology

Introduction to techniques commonly used in current neurobiological research, including intracellular and extracellular recording of action potentials, neuroanatomical methods, and computer simulation of the action potential. —B. O'Gara

Prerequisites or corequisites: BIO BC 3362.

Enrollment limited to 16 students.

3 points. W 1:10-6:00

BIO BC 3370x

General Ecology

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment. —P. Kelly

Prerequisites: BIO BC 2001, 2002, 2003, 2004, or the equivalent. *A course in general chemistry is recommended. Alternate years.*

3 points. M W F 12:00-12:50

BIO BC 3372y

Population and Community Ecology

Introduction to evolutionary ecology; life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate theory with empirical studies. —P. Hertz

Prerequisites: BIO BC 2001, 2002, 2003, 2004 and any additional Biology course. *Alternate years.* *3 points. Tu Th 10:35-11:50*

BIO BC 3373y

Laboratory in Ecology

The definition of ecological problems in experimentally tractable ways; the design of experiments and analysis of ecological data; class projects on population ecology; students conduct individual projects during last month of term. —P. Kelly

Prerequisite or corequisite BC 3370 or BC 3372. *Enrollment limited to 16 students. Alternate years.* *3 points. Th 1:10-6:00*

BIO BC 3374x

Epidemiology

Principles of epidemiology and the application of epidemiologic methods to the study of human populations. Topics include study designs in epidemiology; determinants of exposure and outcome; analytic issues in acute, communicable and chronic disease epidemiology; introductory genetic, molecular and environmental epidemiology. —R. McChesney

Prerequisites: BC 2001, 2002, or the equivalent.

3 points. Tu Th 10:35-11:50

BIO BC 3380y

Evolution

Prerequisites: BC 2001, 2002, 2003, 2004, or the equivalent.

3 points. Not offered in 1994-95.

BIO BC 3386y

Biometry

Application of quantitative approaches and statistical methods to the analysis of biological problems; data collection, descriptive statistics, probability theory, inferential statistics. Computer applications for data analysis. Examples to be drawn from contemporary biology. —R. McChesney

Prerequisites: BC 2001, 2002, 2003, 2004, college level algebra, or the equivalent. *Enrollment limited to 16 students.*

4 points. M W F 10:00-10:50 plus two-hour required computer practicum to be arranged.

BIO BC 3590x, y

Senior Seminars in Biology

Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on both theoretical and empirical work. Seminar

periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.
4 points.

1. Plant Biotechnology

—P. Ammirato
Not offered in 1994-95.

2. Sociobiology

—J. Chase
Not offered in 1994-95.

3. Evolutionary Ecology

—P. Hertz
Not offered in 1994-95.

4. Molecular and Development Genetics

—J. Mohler
Not offered in 1994-95.

5. Human Genome Project

—N. Chu
Not offered in 1994-95.

7. Tropical Biology

—H. Young
Not offered in 1994-95.

8. Virus Structure and Propagation

—J. Poindexter
Spring M 2:10-4:00

9. Neurobiology

—B. O'Gara
Not offered in 1994-95.

10. Population Health

—R. McChesney
Not offered in 1994-95.

11. Parasitism and Disease

—C. Kolba
Autumn M 2:10-4:00

12. Animal Reproductive Strategies

—P. Kelly
Autumn Th 4:10-6:00

13. Physiology of Animal Chemical Communication

—C. Handler
Spring F 1:10-3:00

BIO BC 3591x, y

Guided Research in Biology

Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department Research Seminar (BC 3595) required.—Staff
Prerequisites: Three semesters of college biology and permission of a faculty sponsor. *Corequisite:* BC 3595. Graded with a letter grade or P*/D/F at the discretion of the faculty supervisor.
4 points. Hours for research and seminar TBA.

BIO BC 3592x, y

External Research in Biology

Research projects conducted outside the department developed in consultation with a faculty member who serves as cosponsor. —Staff
Prerequisites: Three semesters of college biology and permission of a faculty cosponsor. 1-4 points. Hours TBA. NOTE: BC 3592 does not receive credit toward the biology major. Graded P*/D/F.

BIO BC 3593x-3594y

Research and Seminar in Biopsychology

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis. —Staff
Prerequisites: Six of the required courses for the biopsychology major.
4 points. Hours TBA.

BIO BC 3595 x,y

Research Seminar

Discussions of approaches to research, methods of scientific communication, and the presentation of scientific data, culminating in a paper and oral report of the results of a research project guided by a faculty sponsor. —R. McChesney
Corequisite: BC 3591.
1 point. Hours TBA.

NOTE: Students may take any of the following courses as elective lectures or elective laboratories in fulfillment of the major requirement. Prior permission must be obtained from the Chair of the Barnard Biology Department before other Columbia courses can be used to fulfill the Biology major requirement.

BIO W 3002y**Introduction to Animal Structure and Function**

—W. Bock

Prerequisites: One year each of biology and physics.

6 points. *Lec:* M W F 9:00-9:50

Lab: M, Tu, W or Th 1:10-5:00

M or W 6:10-10:00

BIO C 3046y**Project Laboratory in Eucaryotic Gene Expression**

—T. Hazelrigg

Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.

5 points. Tu and Th 1:10-5:00 and additional hours TBA.

BIO C 3052x**Project Laboratory in Molecular Genetics**

—A. Tzagoloff

Prerequisites: One year of biology and permission of the instructor. Application must be submitted in Room 600 Fairchild.

5 points. Tu and Th 1:10-5:00 and additional hours TBA.

Biology-Chemistry BCH C 3501x**Biochemistry I: Structure and Metabolism**

—T. Melese and G. Zubav

Prerequisites: C 1005 and one year of organic chemistry.

4 points. M W F 10:00, plus one hour recitation TBA.

Advisers: Bruce O’Gara (Biological Sciences), Rae Silver (Psychology)

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology, and students should maintain contact with the advisers in both departments. A major in Biopsychology provides a strong background in the behavioral sciences and is intended for students who plan to pursue a research career in Biopsychology or Behavioral/Cognitive Neuroscience or related disciplines. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year. Substitutions for required courses may be allowed with the approval of both advisers. To become a Biopsychology major, students must have completed at least two required courses in each discipline (Biology, Chemistry and Psychology) before the beginning of their junior year with a B average in these courses.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

Students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

REQUIREMENTS FOR THE MAJOR

Psychology	BC 1001	<i>Introduction to Psychology</i>
Biology	BC 2001, 2002, 2003, 2004	<i>Introductory Biology</i>
Psychology	BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology	BC 3280	<i>Animal Behavior</i>
Biology/Psych	BC 3593-BC 3594	<i>Research and Seminar in Biopsychology</i>

One of the following courses:

Biology	BC 3386	<i>Biometry</i>
Psychology	BC 1101	<i>Statistics</i>

Two of the following courses; one must include the associated laboratory:

Psychology	BC 1117 or BC 1119	<i>Physiological Psychology</i>
Biology	BC 3360/3361	<i>Mammalian Physiology/Physiology Laboratory</i>
Biology	BC 3362/3363	<i>Neurobiology/Neurobiology Laboratory</i>

Two advanced courses selected from different categories below:

I.	Psychology BC 2154	<i>Hormones and Reproductive Behavior</i>
	Psychology BC 3378	<i>Females and Males</i>
	Psychology BC 3169	<i>Developmental Psychobiology</i>
II.	Biology BC 3370	<i>General Ecology</i>
	Biology BC 3372	<i>Population and Community Ecology</i>
	Biology BC 3380	<i>Evolution</i>
III.	Psychology BC 3164	<i>Perception and Language</i>
	Psychology BC 3375	<i>Organization of Movement</i>
	Psychology BC 3374	<i>Theories of Learning</i>
	Psychology BC 3380	<i>Fundamentals of Neuropsychology</i>
IV.	Biology BC 3200	<i>Genetics</i>
	Biology BC 3302	<i>Molecular Biology</i>
	Biology BC 3310	<i>Cells and Tissues</i>
	Biology-Chemistry C3501	<i>Biochemistry</i>
	Biochemistry G 4021	<i>General Biochemistry</i>

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328 and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

Professors: Sally Chapman, Leslie Lessinger (Chair)

Assistant Professors: Jean Donahue (Visiting), Elise Megehee¹, Marco Pagnotta, Daniel Robie

Director of General Chemistry Laboratories: Olympia Jebejian

Director of Organic Chemistry Laboratories: James Carter

Associates: Frances Feerst, Toby Holtz, Colette Levi, Meenakshi Rao, Noraini Yatim

¹Absent on leave Spring term

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken the Advanced Placement Test may be given advanced placement and one semester's credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; Chemistry BC 3232, *Intermediate General Chemistry*. The laboratory courses, Chemistry BC 3333 and 3338, are recommended.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. Enrollment is limited in all laboratories: students must sign up during the preregistration period.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department: chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either. Qualified seniors are invited to participate in the senior honors program in which they carry out a year-long research project leading to a thesis.

Chemistry

A student who is interested in chemistry should consult any member of the department during her first year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the chemistry major are:

Chemistry BC 1601	<i>General Chemistry I</i>
Chemistry BC 3328, 3230	<i>Organic Chemistry I with Laboratory</i>
Chemistry BC 3231	<i>Organic Chemistry II</i>
Chemistry BC 3335	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3340	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3252	<i>Introduction to Thermodynamics and Kinetics</i>
Chemistry BC 3253	<i>Structure, Bonding, and Spectroscopy</i>
Chemistry BC 3254	<i>Methods and Applications in Physical Chemistry</i>
Chemistry BC 3271	<i>Inorganic Chemistry</i>
Chemistry BC 3365, 3368	<i>Advanced Chemistry Laboratory</i>
Mathematics	<i>Calculus I and II in any sequence (S, A, or honors)</i>
Physics BC 1206, 1207 or V 1103, 1104 or C 1406 with W 1906, C 1407 with W 1907	<i>Calculus-based Physics with Laboratory</i>

Recommended: *Calculus III*.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Research experience is strongly recommended for students planning graduate study. Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the biochemistry major are:

Chemistry BC 1601	<i>General Chemistry I</i>
Chemistry BC 3328, 3230	<i>Organic Chemistry I with Laboratory</i>
Chemistry BC 3231	<i>Organic Chemistry II</i>
Chemistry BC 3333	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3338	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3252	<i>Introduction to Thermodynamics and Kinetics</i>
Chemistry BC 3253	<i>Structure, Bonding, and Spectroscopy</i>
Chemistry BC 3254	<i>Methods and Applications in Physical Chemistry</i>
Mathematics	<i>Calculus I and II in any sequence (S, A, or honors)</i>
Physics BC 1206, 1207 V 1103, 1104 or C 1406 with W 1906, C 1407 with W 1907	<i>Calculus-based Physics with Laboratory or</i>
Biology BC 2001, 2002, 2003	<i>General Biology with Laboratory</i>
Biology-Chemistry C 3501	<i>Biochemistry I</i>
Biology-Chemistry C 3512 or Biology BC 3302x	<i>Molecular Biology</i>
Chemistry BC 3355	<i>Biochemistry Laboratory Techniques</i>

A 3-point elective course from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, and BC 3232 or BC 3252. There is no minor in biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x

General Chemistry I

Particulate nature of matter in various states; chemical transformations, especially of ionic substances; properties of gases; solutions; equilibrium; acid-base, precipitation, and oxidation-reduction reactions; thermochemistry; laboratory experience with both qualitative and quantitative techniques. —S. Chapman, E. Megehee, D. Robie, O. Jebejian, and associates
Prerequisite: Algebra (Math SAT score of 550 for entering students).

5 points. Lecture Tu Th 9:10-10:25

Recitation one afternoon M T W Th or F 1:10-2:00.

Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00 or F 9:00-12:00. Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee: \$28.

CHE BC 1602y

General Chemistry II

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; selected topics in environmental chemistry, organic chemistry, and biochemistry. —D. Robie

Prerequisite: BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science.

5 points. Lecture Tu Th 9:10-10:25

Recitation one afternoon M or F 1:10-2:00

Laboratory same afternoon as recitation M or F 2:00-5:00. Laboratory fee: \$28.

CHE BC 1702y

General Chemistry II Laboratory

Laboratory portion of Chemistry BC 1602.

—M. Rao

Prerequisite: General Chemistry I with laboratory.
Corequisite: General Chemistry II lectures and permission of the instructor.

2 points.

Recitation one afternoon M or F 1:10-2:00

Laboratory same afternoon as recitation M or F 2:00-5:00. Laboratory fee: \$28.

CHE BC 3328y

Introductory Organic Chemistry Laboratory

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation. —J. Carter and associates

Prerequisite: BC 1601 or equivalent with grade of C- or better, or BC 1601 and BC 1602 or equivalent.

Corequisite: BC 3230 or equivalent.

2.5 points. Lecture one afternoon M Tu W Th or F

1:00-1:50. Laboratory same afternoon as lecture M

Tu W Th or F 1:50-5:30 or W or F 8:00-12:00.

Laboratory fee: \$35.

CHE BC 3230y

Organic Chemistry I

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry, and spectroscopy.

—M. Pagnotta

Prerequisite: BC 1601 or equivalent with a grade of C- or better, or BC 1601 and BC 1602 or equivalent. Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

3 points. Lecture Tu Th 9:10-10:25

Problem section F 12:00

CHE BC 3231x

Organic Chemistry II

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules. —M. Pagnotta

Prerequisite: BC 3230.

3 points. M W F 10:00-10:50

Problem section Tu 12:00

CHE BC 3232y

Intermediate General Chemistry

Selected aspects of general chemistry, primarily for pre-medical and biological science students without the background for Chemistry BC 3252. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.

—Instructor TBA.

Prerequisites: BC 1601 and Organic Chemistry I. BC 3230 may be taken as a corequisite with permission of the instructor. *Optional parallel laboratory work:* BC 3338. Course C 1404 is not an acceptable equivalent for BC 3232.

3 points. M W F 10:00-10:50

CHE BC 3333x

Modern Techniques of Organic Chemistry Laboratory

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.

—M. Pagnotta

Prerequisites: BC 3328 and BC 3230.

Corequisite: BC 3231.

3 points. Lecture Th 1:10-2:00

Laboratory one afternoon Tu 1:10-5:30 or Th 2:10-6:00 or F 12:10-4:30. Laboratory fee: \$35.

CHE BC 3335x

Modern Techniques of Organic Chemistry Laboratory

Identical with BC 3333, but with a library problem, a short project, and additional preparative experiments. —M. Pagnotta

Prerequisites: BC 3328 and BC 3230. *Corequisite:* BC 3231.

5 points. Lecture Th 1:10-2:00

Laboratory two afternoons Tu 1:10-5:30, Th 2:10-6:30. Laboratory fee: \$35.

CHE BC 3337x

Modern Techniques of Organic Chemistry Laboratory

Prerequisite: BC 3333x.

2 points.

Laboratory one afternoon. Tu 1:10-5:30 or Th 2:10-6:30 or F 12:10-4:30

CHE BC 3333x + 3337x = 3335x.

CHE BC 3338y

Quantitative and Instrumental Techniques Laboratory

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computers is provided.

—S. Chapman and O. Jebejian

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

3 points. Lecture Tu 1:10-2:00

Laboratory Tu 2:10-6:00 or Th 1:10-5:00.

Laboratory fee: \$35.

CHE BC 3340y

Quantitative and Instrumental Techniques Laboratory

Identical with BC 3338, but with a greater variety and number of experiments. —S. Chapman and O. Jebejian

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3252.

5 points. Lecture Tu 1:10-2:00

Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00. Laboratory fee: \$35.

CHE BC 3342y

Quantitative and Instrumental Techniques Laboratory

Prerequisite: BC 3338y.

2 points.

Laboratory one afternoon. Tu 2:10-6:00 or Th 1:10-5:00

Note: CHE BC 3338y + 3342y = 3340y

CHE BC 3252y

Introduction to Thermodynamics and Kinetics

Thermodynamics: introduction to the laws; application primarily to ideal systems. Free energy and equilibrium. Kinetics: rate laws and mechanisms, experimental techniques. —D. Robie
Prerequisites: CHE BC 3231, Physics I (Mechanics), and Calculus II.

4 points. Lecture M W F 10:00-10:50, F 12:00-12:50

CHE BC 3253x

Structure, Bonding, and Spectroscopy

Elementary quantum chemistry: exact solutions to the Schrödinger equation. The structure of atoms and molecules. Energy levels and spectra. —L. Lessinger

Prerequisites: CHE BC 3252, and Physics II.

4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHE BC 3254y

Methods and Applications in Physical Chemistry

Radiochemistry. Applications of thermodynamics to real systems; activities, electrochemistry. Macromolecules. Transport properties. The kinetic theory of gases. Elementary statistical thermodynamics. —L. Lessinger

Prerequisites: CHE BC 3253.

4 points. Lecture M W F 11:00-11:50, M 12:00-12:50

CHE BC 3271x

Introduction to Inorganic Chemistry

A systemic introduction to the structure and reactivity of inorganic compounds: bonding, reaction mechanisms, selected main group chemistry, transition metal chemistry, organometallics, clusters, catalysis, and bioinorganic chemistry. —E. Megehee
Prerequisites: CHE BC 3230y.

3 points. Lecture Tu Th 9:10-10:25

CHE BC 3355x

Biochemistry Laboratory Techniques

Experience with fundamental techniques used in the isolation, characterization, and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics, and simple genetic cell transformation methods.

—J. Donahue

Prerequisites: One year of Organic Chemistry, one year of Biology, four semesters of chemistry and biology laboratory, and Biology-Chemistry C 3501 or Biochemistry G 4021.

5 points. Lecture Tu 1:10-2:00

Laboratory Tu 2:10-6:00 and Th 1:10-5:00

Laboratory fee: \$45.

CHE 3357x

Biochemistry Laboratory Techniques

Identical to BC 3355, but experiments are modified to be accomplished in one laboratory period per week. This course may be of particular interest to biology and chemistry majors. —J. Donahue

Prerequisites: Same as BC 3355.

3 points. Lecture Tu 1:10-2:00

Laboratory Tu 2:10-6:00 or Th 1:10-5:00

Laboratory fee: \$35.

CHE BC 3365x

Advanced Chemistry Laboratory

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some computer applications. —D. Robie
Prerequisites: BC 3252 and BC 3338 or equivalent.

3 points. Lecture Tu 12:00-12:50

Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00. Laboratory fee: \$35.

CHE BC 3368y

Advanced Chemistry Laboratory

Experiments in various types of spectroscopy. —J. Donahue

Prerequisites: identical to BC 3365.

3 points. Lecture Tu 12:00-12:50

Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00

CHE BC 3598x, 3598y

External Problems in Chemistry

Advanced individual research projects at other institutions. —Staff

Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Mandatory pass/fail grading.

Permission of the instructor (a Barnard professor who will act as liaison) is required.

4 points.

CHE BC 3599x, 3599y

Problems in Chemistry

Advanced individual research projects at Barnard. —Staff

Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. Permission of the instructor required.

4 points. Eight hours by arrangement.

Laboratory fee: \$35.

CHE BC 3901x-3902y

Senior Honors Thesis

Guided research in Chemistry or Biochemistry, under the sponsorship of a member of the department, leading to the senior thesis. Weekly seminar. —Staff

Enrollment restricted to seniors, by invitation of the department.

4 points. F 2:00-2:50 and 8 hours research TBA.

SUMMER RESEARCH

There are available a number of fellowships for summer research within the department.

Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

OTHER COURSES

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Biology-Chemistry BCH C 3501x Biochemistry I

—T. Melese and G. Zubay

4 points. M W F 10:00-10:50

Biology-Chemistry BCH C 3512y Biochemistry II

—C. Purvis and R. Pollack

3 points. Tu Th 9:10-10:25

CHE C 3071y

Introduction to Inorganic Chemistry

—G. Parkin

3 points. Lecture Tu Th 9:10-10:25.

This course is equivalent to BC 3271x.

Chemistry CHE G 4103x
Advanced Inorganic Chemistry I
 —R. Beer
 4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4131x
Introductory Quantum Chemistry
 —B. Bent
 4.5 points. Tu Th 9:10-10:25

Chemistry CHE G 4147x
Advanced Organic Chemistry
 —D. Horne
 4.5 points. M W F 11:00-11:50

Chemistry CHE G 4141y
Organic Spectroscopy
 —K. Nakanishi
 4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4170x
Biophysical Chemistry
 —A. McDermott
 4.5 points. M W F 9:00-9:50

Chemistry CHE G 4172y
Bio-Organic Topics
 —K. Nakanishi
 4.5 points. Tu Th 10:35-11:50

Chemistry CHE G 4221x
Quantum Chemistry I
 —R. Friesner
 4.5 points. M W F 12:00-12:50

Chemistry CHE G 4230x
Statistical Thermodynamics
 —R. Bersohn
 4.5 points. Tu Th 9:10-10:25

Professors: Helene P. Foley¹, Lydia H. Lenaghan (Chair)

Assistant Professor: Dirk Obbink

Other officers of the University offering courses in Classics:

Professors: Roger S. Bagnall, Alan D. E. Cameron, James R. Coulter², Suzanne Said³, Leonardo Tarán, James E. G. Zetzel

Associate Professors: Carmela Franklin, Mark J. Petrini

Assistant Professors: James B. Rives, Deborah T. Steiner, Gareth D. Williams

Assistant Professor of Modern Greek: Maria Leontsini, Karen van Dyck¹

¹Absent on leave 1994-95

²Absent on leave Autumn term

³Absent on leave Spring term

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V 1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund, whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *Persians*, *Eumenides*, *Cyclops*, *Electra*, *Clouds*, *Trojan Women*, *Rudens*, *Helen*, *Trachiniae*, and *Bacchae*, which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one semester, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open without fee to graduates of the College.

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Elements of Greek Prose Style

Greek W 4105-W 4106

History of Greek Literature

and five others.

In Latin, this would be fulfilled by taking

Latin W 4139

Elements of Latin Prose Style

Latin W 4105-W 4106. *History of Latin Literature*
and five others.

In addition two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and five courses above the elementary level in the other.

Note: For the requirements for the major in Ancient Studies, see Ancient Studies.

REQUIREMENTS FOR THE MINOR

The minor in Greek or Latin requires five courses above the elementary level.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses unless specially noted.

Classical Literature CLL V 3132x **Classical Myth**

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid). —D. Obbink
3 points. Tu Th 2:40-3:55 III H

Classical Literature CLL V 3123y **Greek Drama and Its Influences**

Evolution of various types of tragedy and comedy from the 5th century B.C.E. in Athens to the 1st century C.E. in Rome: relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays. —D. Steiner
3 points. M W 1:10-2:25 III H

Classical Literature CLL V 3135y **The Ancient Novel**

3 points. Not offered in 1994-95. III H

Classical Literature CLL W 4320y **Myth and Ritual**

Prerequisite: CLL 3132 or permission of the instructor.
3 points. Not offered in 1994-95. I H

Classical Literature CLL W 4300y **The Classical Tradition**

Social, political, intellectual, and religious contexts in which epic, lyric, tragic, and comic poetry originally developed in Greece; Roman

adaptations and their influence on modern authors. —M. Petrini

3 points. M W 6:10-7:25 III H

Classical Literature CLL W 4100x **The Reception of Antiquity**

An introduction to the heritage of classical antiquity, primarily Greece, in later European culture. Topics to be considered will include translation, iconography, the history of classical scholarship, architectural and artistic manifestations of the classical tradition, Greek tragedy on stage and on film, the images of Athens and Sparta. —S. Said
3 points. M W 9:10-10:25 III H

Classical Civilization CLC W4110 **Gender and Sexuality in Ancient Greece**

Sophomore standing or permission of the instructor.
3 points. Not offered in 1994-95. I H

Classical Civilization CLC V4100y **The Handwritten Book**

3 points. Not offered in 1994-95. III H

Classical Civilization CLC V 3158y **Women in Antiquity**

3 points. Not offered in 1994-95 I H

Classical Civilization CLC V 3162x **Ancient Law**

Greek and Roman legal systems; archaic law in its social context; philosophy of law; development of private law in Rome. —J. Zetzel
3 points. Tu Th 1:10-2:25 III S

Classical Civilization CLC V 3164y **The Emperor Nero and the Roman World**

3 points. Not offered in 1994-95 III

Classical Civilization CLC V 3160y **The Age of Augustus**

An exploration of the interplay between literature and its context, political, social, and intellectual. Literary texts to be discussed will include Virgil, Horace, Livy, and Ovid. Topics to be discussed (in addition to analysis of the works) will include literary patronage and the status of the poet, the Augustan moral and religious revival, political propaganda, and political opposition.

—L. Lenaghan

3 points. M W 2:40-3:55

Classical Civilization CLC W 4200y **Egypt and Hellenism**

The encounter of the three-millenia-old civilization of Egypt with domination by foreign powers: Macedonia, Greece and Rome. Focus on colonial power structures, definition and functioning of ethnicity, interaction of cultures and languages, class and status, changing gender relations. —R. Bagnall

3 points. Tu Th 9:10-10:25

I H

Ancient Studies ANC W 4000x **Introduction to Ancient Studies**

This seminar is an introduction to the interdisciplinary study of the ancient world; the topic will vary from year to year. In 1994-95 the topic will be the society, government and culture of late antiquity (ca. 275-565 C.E.). Required of students entering the MALS Program in Ancient Studies and open to other graduate and undergraduate students with permission of the instructor. —A. Cameron

3 points. W 6:10-8:00

III

GREEK LANGUAGE AND LITERATURE

GRE V 1101x-V 1102y **Elementary Full-Year Course**

Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the Apology, will be read.

1101 is prerequisite to 1102. No credit is given for 1101 unless 1102 is completed.

4 points. x: Sec. 1 M W F 11:00-12:15 —D. Steiner

Sec. 2 M W F 6:10-7:25 —D. Clark

y: Sec. 1 M W F 11:00-12:15 —D. Steiner

Sec. 2 M W F 6:10-7:25 —D. Gilpin

GRE V 1121x, y **Intensive Elementary Course**

This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare the student to enter third semester Greek.

—x: J. Farr, y: G. Williams

4 points. x: M W F 9:10-10:25

y: M W F 11:00-12:15

GRE V 1201x

Greek Literature: Prose and Poetry

Selections from Attic prose and early elegiac poetry. There will be weekly assignments to review forms and syntax. —L. Tarán

Prerequisite: V 1101-V 1102 or V 1121.

4 points. M W 1:10-2:25, F 1:10-2:00

H

GRE V 1202y

Selections from Homer

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer. —J. Coulter

Prerequisite: V 1101-V 1102 or V 1121, or permission of the instructor.

4 points. M W 1:10-2:25, F 1:10-2:00

H

GRE V 1203x

New Testament

Prerequisite: V 1101-V 1102 or V 1121.

4 points. Not offered in 1994-95

H

GRE V 1221y

Intensive Intermediate Greek

Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*. —J. Farr

Prerequisite: V 1101-V 1102, or V 1121.

4 points. M W F 9:10-10:25

H

GRE V 3305y

Tragedy

Prerequisites: V 1201, 1202, or their equivalents. Alternate years.

3 points. Not offered in 1994-95.

H

GRE V 3306y

Historians

Prerequisites: V 1201, 1202, or their equivalents. Alternate years.

3 points. Not offered in 1994-95.

H

GRE V 3307y

Comedy

Prerequisites: V 1201, 1202 or their equivalents.

3 points. Not offered in 1994-95.

H

GRE V 3308x

Philosophy

Prerequisites: V 1201, 1202, or their equivalents. Alternate years.

3 points. Tu Th 10:35-11:50

H

GRE V 3309x

Selections from Greek Literature: Poetry

Content of course changes each year; it may be taken in consecutive years. Topic for 1994-95:

survey and analysis of archaic lyric poetry, with attention to its origin and place in contemporary society. —D. Steiner

Prerequisite: Greek V 1201-1202, or their equivalents.
4 points. M W 1:10-2:25

GRE V 3310y

Selections from Greek Literature: Prose

Content of course changes each year; it may be taken in consecutive years. Topic for 1994-95: Orators. A close study of Demosthenes' *On The Crown*, including the historical background.

—L. Tarán

Prerequisites: Greek V 1201-1202, or their equivalents.
3 points. Tu Th 10:35-11:50 H

GRE V 3997x, GRE V 3997y

Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

GRE V 3998x, GRE V 3998y

Supervised Research in Greek Literature

Program of research in Greek literature, with the composition of a paper embodying results. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

Greek W 4006y

Greek Historians

Prerequisites: V 1201, 1202, or their equivalents.
3 points. Not offered in 1994-95. H

GRE W 4009x

Selections from Greek Literature: Prose

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1994-95: Detailed readings of Plato's *Gorgias*, with attention to literary and philosophical aspects.

—L. Tarán

Prerequisites: V 1201-1202, or their equivalents.
3 points. M W 9:10-10:25 H

GRE W 4010y

Selections from Greek Literature: Poetry

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1994-95: Comedy. Close reading of Aristophanes' *Clouds* and *Frogs*. —J. Coulter

Prerequisites: GRE V 1201-1202, or their equivalents.
3 points. M W 11:00-12:15 H

GRE W 4105x - 4106y

History of Greek Literature

Lectures based on extensive readings in Greek literature from Homer to the fourth century C.E.
—x: S. Saïd; y: D. Obbink

Prerequisite: At least two terms of Greek beyond V 1201, V 1202.

4 points. x: M W 2:10-4:00, F 2:10-4:00 H
y: M W 4:10-6:00, F 4:10-6:00

GRE W 4139x

Elements of Greek Prose Style

Intensive review of Greek syntax. Writing of sentences and connected passages in Greek.

—D. Obbink

Prerequisite: At least four terms of Greek or equivalent.
3 points. Tu Th 9:10-10:25

LATIN LANGUAGE AND LITERATURE

LAT V 1101x-1102y; 1102x, 1101y

Elementary Full-Year Course

V 1101: Grammar, composition and reading. V 1102: Complete review of grammar and syntax; emphasis on representative readings. —Staff
V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V 1102 is completed.

4 points.

V 1101x Sec. 1 M W F 11:00-12:15 —C. Franklin
Sec. 2 M W F 6:10-7:25 —J. Kang

V 1102x Sec. 1 M W F 11:00-12:15 —P. Christensen

V 1101y Sec. 1 M W F 11:00-12:15 —P. Christensen
Sec. 2 M W F 6:10-7:25 —S. Asiratham

V 1102y Sec. 1 M W F 11:00-12:15 —D. Clark
Sec. 2 M W F 6:10-7:25 —J. Kang

LAT V 1121x, y

Intensive Elementary Course

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third semester Latin.

—x: L. Lenaghan; y: Z. Martirosova

4 points. M W F 11:00-12:15

LAT V 1201x, y

Latin Literature: Prose

Selections from Cicero or Sallust.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points. H

x: Sec. 1 M W 9:10-10:25; F 9:10-10:00 —A. Cameron
Sec. 2 M W 6:10-7:25; F 6:10-7:00 —C. Hartman

y: M W 1:10-2:25, F 1:10-2:25 —L. Lenaghan

LAT V 1202x, y

Latin Literature: Poetry

Selections from Virgil, *Aeneid*, or Ovid, *Metamorphoses*.

Prerequisite: V 1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Sec. 1 MW 1:10-2:25; F 1:10-2:00 —G. Williams

y: Sec. 1 MW 1:10-2:25; F 1:10-2:00 —M. Petrini

Sec. 2 MW 11:00-12:15, F 11:00-11:50 —A. Cameron

H

LAT V 1221y

Intensive Intermediate Latin

Covers the content of Latin V 1201 and 1202 in one term. Readings from the essays, orations, and letters of Cicero; Virgil's *Aeneid*; Ovid's *Metamorphoses*; and other works in Latin poetry. —C. Hartman

Prerequisite: LAT V 1101-1102, or the equivalent.

4 points. M W F 9:10-10:25

LAT V 3012x

Lyric Poetry

Selections from Catullus' polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics. —M. Petrini

Prerequisite: V 1201, 1202 or four years of high school Latin.

3 points. M W 2:40-3:55

H

LAT V 3033x

Medieval Literature

Survey of representative late Latin and medieval texts; readings from the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography. —C. Franklin

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. M W 9:10-10:25

H

LAT V 3305x

Historians

Prerequisite: Course V 3012 or the equivalent.

Alternate years.

3 points. Not offered in 1994-95.

H

LAT V 3306x

Roman Satire

Readings from Horace and Juvenal.

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Not offered in 1994-95.

H

LAT V 3307y

Elegiac Poetry

Prerequisite: V 3012 or the equivalent. Alternate years.

3 points. Not offered in 1994-95.

H

LAT V 3308y

Philosophy

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1994-95: Lucretius. Detailed reading of sections of *De Rerum Natura*, with special emphasis on the development of early Latin hexameter poetry, Roman intellectual history, and literary and philosophical aspects of the work. —J. Zetzel

Prerequisite: LAT V 3012 or the equivalent.

3 points. Tu Th 1:10-2:25

H

LAT V 3309y

Selections from Latin Literature, I

Prerequisite: V 3012 or the equivalent.

3 points. Not offered in 1994-95.

H

LAT V 3310x

Selections from Latin Literature: Prose

Content of course changes from year to year; it may be taken for credit in consecutive years.

Topic for 1994-95: Silver prose. Detailed readings of Seneca and Tacitus, with special emphasis on literary style and method. —G. Williams

Prerequisite: LAT V 3012 or the equivalent.

3 points. M W 10:35-11:50

H

LAT W 4008x

Novel

Readings in Petronius', *Satyricon* and Apuleius' *Golden Ass* and selections from other examples of the Roman novel. —A. Cameron

Prerequisite: V 3012 or the equivalent.

3 points. M W 1:10-2:25

H

LAT W 4009y

Selections from Latin Literature: Poetry

Content of course changes from year to year; it may be taken in consecutive years. Topic for 1994-95: Virgil. Critical analysis of the *Eclogues* and *Georgics* through close readings of selected portions. —M. Petrini

Prerequisite: LAT V 3012 or the equivalent.

3 points. Tu Th 2:40-3:55

H

LAT W 4010x

Selections from Latin Literature: Poetry

Content of course changes each year; it may be taken in consecutive years. Topic for 1994-95: Roman satire. Selections from Horace, Juvenal, and Seneca's *Apocolocyntosis*. —L. Lenaghan

Prerequisite: LAT V 3012 or the equivalent.

3 points. M W 2:40-3:55

H

LAT V 3997x, y
Directed Reading

To be tested by a series of short papers, one long paper, or an oral or written examination. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

LAT V 3998x, y
Supervised Research in Latin Literature

A program of research in Latin literature with the composition of a paper embodying results. —Staff
Permission of the chairman of the department required.
3 points. Hours TBA.

LAT W 4105x, 4106y
History of Latin Literature

Lectures based on extensive readings in Latin literature from the beginning to the fourth century C.E. —x: M. Petrini, y: A. Cameron
Prerequisite: At least two terms of Latin beyond V 3012.
4 points. x: M 4:10-6:00, W 4:10-6:00 H
y: M 2:10-4:00, W 2:10-4:00

LAT W 4139x
Elements of Latin Prose Style

Intensive review of Latin syntax. Writing of sentences and connected passages in Latin. —J. Rives
Prerequisite: At least four terms of Latin or the equivalent.
3 points. Tu Th 10:35-11:50

LAT W 4152y
Medieval Latin

Content of course changes from year to year: it may be taken in consecutive years. Topic for 1994-95: Biography and hagiography. A survey of this important medieval literary genre, from the *Passio Perpetuae* through the 12th century. —C. Franklin
Prerequisite: Permission of the instructor.
3 points. M W 9:10-10:25 H

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. The courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y
Elementary Full-Year Course

Introduction to modern Greek language and culture. Emphasis on both speaking and writing; basic grammar and syntax; cross-cultural analysis. —M. Leontsini
No credit is given for V 1101 until V 1102 is completed.
4 points. M W 11:00-12:15

MGR V 1201x
Intermediate Course, I

Emphasis on both speaking and writing; more complex grammar and syntax; a variety of readings including short selections from newspapers and contemporary literature. —M. Leontsini
Prerequisite: MGR V 1101-V 1102 or the equivalent.
3 points. M W 2:40-3:55

MGR V 1202y
Intermediate Course, II

Emphasis on both speaking and writing; more complex syntax; a variety of readings including short selections from newspapers and contemporary literature. —M. Leontsini
Prerequisite: MGR V 1201 or permission of the instructor.
4 points. M W 9:10-10:25 H

MGR V 1401x
Modern Greek for the Bilingual Speaker

For students who have grown up speaking Greek but have difficulties writing. Comprehensive grammar review; attention to individual needs through analysis of newspapers, films and literature. —M. Leontsini
3 points. M W 9:10-10:25

MGR V 3320x
Stereotypes and Representation

An analysis of stereotypes in Greek 19th- and 20th-century fiction, focusing on issues of representation. Texts read will include responses to particular historical events such as the War of Independence, World War II, and the Dictatorship. —M. Leontsini
3 points. M W 1:10-2:25 H

MGR V 3997x, 3998y
Independent Study

The course of study and amount of credits will be determined by the instructor in consultation with student/s. Independent study is designed for students writing a senior thesis or doing advanced research on Greek or Greek-American topics. —Staff

1-4 points. Hours TBA.

H

MGR V 3312y
Gender and Ideology in the
Modern Greek Novel

An investigation of the relation between gender and ideology in post-war Greek narrative. How sexual politics function in the popular novel and determine its reception. —M. Leontsini

Prerequisite: MGR V 1201 or V 1401 or the equivalent.
 3 points. M W 1:10-2:25

MGR V 3120y
The Social Function of the Short Story

Prerequisite: MGR V 1201 or V 1401 or the equivalent.
 3 points. Not offered in 1994-95.

MGR V 3305x
Writing and Censorship

Prerequisite: MGR V 1201 or V 1401 or the equivalent.
 3 points. Not offered in 1994-95.

MGR V 3306x
The Making of Modern Greek Poetry

Prerequisite: MGR V 1201 or V 1401 or the equivalent.
 3 points. Not offered in 1994-95.

MGR V 3310y
Myth, History and the Modern Greek Novel

Prerequisite: MGR V 1201 or V 1401 or the equivalent.
 3 points. Not offered in 1994-95.

The program is supervised by the Committee on Comparative Literature

Professors: Helene Foley (Classics, Co-chair), Richard F. Gustafson (Slavic, Co-chair), Mirella Servodidio (Spanish)

Associate Professors: Christopher Baswell (English), Irene Bloom (Asian and Middle Eastern Cultures)

Assistant Professors: Antonella Ansani (Italian), Sigrid Berka (German), Peter T. Connor (French), Catherine Nepomnyashchy (Slavic), Dirk Obbink (Classics)

Advisory Board: Elizabeth Dalton (English), Serge Gavronsky (French), Maire Januus (English), Lydia Lenaghan (Classics), Gertrude Sakrawa (German), Mirella Servodidio (Spanish), Marcia Welles (Spanish)

The program enables the student to pursue the study of at least two literatures in two different languages and to explore the possibilities and methods of literary study both historically and across national boundaries. In consultation with her adviser, the student will shape a program that will give her a firm foundation in her two central literatures and in one major period, genre, theme, or theoretical issue.

REQUIREMENTS FOR THE MAJOR

To enter the program a student must normally have completed the required sequence necessary for entry into the advance literature courses of her major program. This varies from language to language; students should consult the chair. Each student, after consultation with the chair, chooses an adviser from one of her two literature departments. This adviser guides her in developing a sequence of courses appropriate for her goals in the major. The major requires a minimum of 15 courses normally to be chosen from the following categories:

CPLT BC 3001 *Comparative Literature: Representation and Encounter*

One course in appropriate classical texts chosen from The Classical Tradition (CLL W 4300), Introduction to the Hebrew Bible (REL V 3201), Introduction to the New Testament (REL V 3202), Asian Humanities (AHU V 3399 or V 3400), or other courses with approval of the advisor.

One course in literary theory, such as ENG BC 3194, FRE BC 3048 (x or y), CPLT C 3114, C 3415, LIT G 4002, 4003.

Three courses from **each of two** literary traditions studied in the original languages. Foreign literature courses must be beyond the introductory level.

Five elected courses in literature or literary theory (studied in the original or in translation) related to the student's individual program.

One course, either an appropriate seminar or a tutorial, for the writing of a senior thesis.

The Senior Thesis must deal with material from at least the two central literatures in the student's major. In addition this thesis must treat, at least in part, the one period, genre, theme, or theoretical issue that has shaped the student's program. The choice of topic for this senior essay and the appointment of a second advisor are determined in consultation with the area adviser and the chair of the program.

Students who wish to major in Comparative Literature, but who for valid reasons wish to pursue a program at variance with the above model, should consult the chair.

COURSES OF INSTRUCTION

CPLT BC 3001x

Comparative Literature: Representation and Encounter

Introduction to the study of literature from a comparative and cross-disciplinary perspective. Readings will be selected to promote reflection on such topics as: the relation of literature to the other arts; nationalism and literature; international literary movements; post-colonial literature; gender and literature; issues of authorship, influence, originality and intertextuality. —P. Connor
Prerequisite: Sophomore standing or equivalent, or permission of the instructor.

3 points. M W F 10:00-10:50

I H

HUM V 3003x, V 3004y

Modern Western Literature and Philosophy

New visions of self, society and God, passion, anxiety and faith. The reconstruction of moral, aesthetic, and cultural values. First-semester texts include: Kleist, Wordsworth, Whitman, Balzac, Dickens, Kierkegaard, Dostoevsky, Dickinson, Flaubert, Tolstoy, Nietzsche, Ibsen. Second semester texts include: Freud, Proust, Rilke, Woolf, Colette, Camus, Artaud, Lawrence, Marquez. —x: R. Gustafson, y: not offered in 1994-95.
Prerequisite: Grade of B or better in HUM C 1001-1002 or BC First-Year Seminar.

3 points. Hours TBA.

H

University Professor Emeritus: Samuel Eilenberg, Theodore R. Bashkow

Professors: Theodore R. Bashkow (Emeritus), Zvi Galil (Chair), Jonathan L. Gross, Joseph F. Traub, Stephen H. Unger, Henryk Wozniakowski

Associate Professors: Peter K. Allen, Daniel J. Duchamp, Steven K. Feiner, Gail E. Kaiser, John R. Kender, Kathleen R. McKeown (Program Consultant), Salvatore J. Stolfo, Yechiam Yemini

Assistant Professors: Shree Nayar, Steven M. Nowick, Kenneth A. Ross

Lecturers: Athanasios M. Tsantilas, Michael K. van Biema, Mulesh Dalal

Adjunct Professor: Bruce Gilchrist

Adjunct Lecturers: David Bantz, Alexander Pasik, Ajit Singh, Mark Squillante, C. J. Tan, Alexander Thomassian, George Wolberg

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper-level courses is available in topics such as artificial intelligence, combinatorial methods, computational complexity and the analysis of algorithms, computer architecture and VLSI design, computer communications, computer graphics, computer vision, databases, distributed computing, expert systems, mathematical models for computation, natural language processing, programming environments, and robotics. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

Academic computing needs are met by University computing facilities which include SUN and IBM mainframes and microcomputers. Qualified majors often serve as consultants at the Computer Center.

In addition to course work, students sometimes assist faculty members on research projects.

The department has well-equipped lab areas for research in robotics, computer vision, distributed and mobile computing, computer graphics, image processing, programming environments, and parallel architectures. The computer facilities include a shared infrastructure of SUN file servers (both multi-processors and single processors), a student research lab of workstations and various x display servers, and a department-wide ethernet (with numerous subnets), plus a research project infrastructure with additional servers, and numerous SUN, HP, IBM, and NeXT robotic arms, a UTAH-MIT dextrou hand, an Aspex PIPE (an 8-stage parallel pipelined, low-level image processor), HP TurboSRX and TurboVRX 3D shaded graphics workstations with true 3D input (via a VPL DataGlove hand-tracing system) and a StereoGraphics stereo display system, a locally built see-through head-mounted display, a high-resolution color scanner and film recorder, the locally developed 1023-processor DAD02 and 15-processor DAD04 tree-structured computers, experimental packet-radio-based workstations, additional network gateways, an HP 6300 optical jukebox, and a Kurzweil 5100 omnifont page scanner. The department network is gatewayed to a campuswide backbone net-

work as well as to Internet (through NYSERNET and BITNET) and USENET. The research facility is supported by a full-time staff of professional systems programmers and engineers, aided by many part-time student technicians.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. First-year students considering a Computer Science major should take W 1007. By taking an introductory course early in their college years, non-majors are able to use the computers more effectively in their upper-level studies in other departments.

The primary programming languages for the undergraduate majors are C and LISP, and students are expected to become bilingual at an early stage. The language for the introductory course (CS-W 1007) is the Scheme dialect of LISP. The primary language for CS-W 3137 is C, and students without a knowledge of C should take the accelerated section of the 1 point C course (CS-W 3101-02) concurrently. A thorough knowledge of C is required for CS-W 3152. A knowledge of LISP required for CS-W 4701.

NOTE: Students majoring or minoring in Computer Science should take Computer Science W 1007 and W 3137, rather than Computer Science W 1003 and W 3131. Students who have taken Computer Science W 1003 before Autumn 1989 or W 3131 before Autumn 1990 may still count these other courses toward a major or minor, or use them to satisfy the prerequisites of advanced courses.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year. (Major being revised. See Department for changes.)

A total of 15 courses are required for the major.

W 1007	<i>Introduction to Computer Science</i> (preferably in the first year)
Mathematics	<i>Calculus I and II</i> (preferably in the first year)
W 3137	<i>Data Structures for Computer Science</i> (preferably in the sophomore year)
W 3152	<i>Software Design Laboratory</i> (preferably in the sophomore year)
W 3203	<i>Discrete Mathematics</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
Mathematics V 2010	<i>Linear Algebra</i>
Stat-IEOR W 4150 or W 3261	<i>Introduction to Probability & Statistics</i> <i>Computability and Models of Computation</i>
W 3823	<i>Digital Logic</i>
W 3824	<i>Computer Organization, I</i>
W 4115	<i>Programming Languages and Translators</i>
W 4701	<i>Artificial Intelligence</i>

and an approved choice of two additional upper-level computer science courses.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3137, W 3232, W 3823, and one of the following: W 3824, W 4115, or W 4701.

COURSES OF INSTRUCTION

CSC W 1001x, y
Introduction to Computers

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. Taught in the Scheme dialect of LISP. —Instructor TBA.
3 points. Hours TBA.

CSC W 1003x, y
Introduction to Computer Programming in C

Intended primarily for engineering students. General introduction to computer programming. Structured program design. C. —Instructor TBA.
3 points. M W 5:40-6:55

CSC W 1005x, y
Introduction to Computer Programming in Fortran

Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN. —J. Helm
3 points. M W 11:00-12:15

CSC W 1007x, y
Introduction to Computer Science

An honors-level introduction to computing, intended primarily for students considering a major in computer science. The structure and interpretation of computer programs. Building abstractions with data and procedures. —J. Klavans.
3 points. Tu Th 2:40-3:55

CSC W 3101x,y
Programming Languages

Introduction to a programming language. Each section is devoted to a specific language. Intended only for those who are already fluent in at least one programming language. Sections may meet for one hour per week for the whole semester or three hours per week for the first third of the semester. May be repeated for credit if different languages are involved. —Instructors TBA.

1 point. Sec. 1 (C) Tu 6:10-7:25
Sec. 2 (C) (5 weeks only) Tu Th 6:10-7:25
Sec. 3 (LISP) Th 6:10-7:00

CSC W 3131x, y
Data Structures in C

Data types and structure: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs; programming techniques for processing such structures; recursive programming, internal sorting and searching, hashing, garbage collection; storage management, rudiments of the analysis of algorithms. *Not intended for computer science majors. Taught in C. Prerequisite: W 1003 or knowledge of C.*
3 points. x: M W 6:10-7:25
y: Hours TBA.

CSC W 3137x, y
Data Structures for Computer Science

Data types and structures: arrays, stacks, singly and doubly linked lists, queues, trees, sets, and graphs. Programming techniques for processing such structures: sorting and searching, hashing, garbage collection. Storage management. Rudiments of the analysis of algorithms. A knowledge of Scheme is assumed and students will be expected to learn C. —Instructor TBA.
Prerequisite: W 1007. Corequisite: W 3203.
3 points. Hours TBA.

CSC W 3152x, y
Software Design Laboratory

It is strongly recommended that this be taken concurrently with W 3232. Advanced programming in C. Programming methodology including structured programming, data abstraction, top-down design, and modular decomposition. Programming and debugging tools and strategies. An introduction to building large software systems. Substantial programming is required. This course is a prerequisite for all 4000-level software courses. —Instructor TBA.

Prerequisite: CSC W 3137.
3 points. Tu Th 11:00-12:15

CSC W 3203x, y
Discrete Mathematics: Introduction to Combinatorics and Graph Theory

Mathematical induction, counting arguments (permutations and combinations, elementary finite probability, generating functions, recurrence relations, inclusion-exclusion principle), and topics in graph theory (isomorphism, planarity, circuits, trees, and directed graphs). —J. Gross
Prerequisite: Any introductory programming course.
3 points. Hours TBA.

CSC W 3205x, y
Introduction to Discrete Structures

Sets, relations and functions, logic, algebraic structures. Applications to computing. —J. Gross
3 points. Hours TBA.

CSC W 3210x
Computational Aspects of Time Dependent Processes

An introduction to computational aspects of mathematical models of time varying phenomena. Both discrete and continuous models of time varying phenomena. Both discrete and continuous models including linear and nonlinear first order and higher order and systems of equations will be included. Theoretical and numerical aspects will be emphasized. Quantitative issues such as chaos and stability will also be covered. Applications include genetics, finance, physical systems, computer systems, simulation, and Markov modeling. —T. Boulton

Prerequisites: Two semesters of calculus, and proficiency in a programming language.
3 points. Hours TBA.

CSC W 3251y
Scientific Computation

Major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations, and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares and the eigen values. The computational complexity of some of these problems will be discussed. The computer implementation of algorithms is stressed. —J. Traub
Prerequisites: Calculus I and II, MAT V 2010, EGM E 3101.

3 points. Tu Th 2:40-3:55

CSC W 3261y
Computability and Models of Computation

Regular languages, finite automata, regular grammars, non-determinism, regular expressions. Context-free languages, push-down automata, context-free grammars, parsing. Turing machines, general grammars, computability, the Chomsky hierarchy, the Church-Turing thesis, other models of computation.

Prerequisite: W 3137 and W 3203.
3 points. Hours TBA.

CSC W 3823x
Digital Logic

Number representation, boolean algebra, combinational logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters and other basic functional circuits, sequential circuits, clocking.

Prerequisite: Any introductory programming course.
3 points. Hours TBA.

CSC W 3824y
Computer Organization I

Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALU's, interrupts, memory, pipelining, I/O. —S. Unger
Prerequisite: CSC W 3823.

3 points. Hours TBA.

CSC W 3995x or y
Special Topics in Computer Science

Special topics arranged as the need and availability arises. Topics are usually offered on a one-time basis. Since the content of this course changes each time it is offered, it may be repeated for credit.

Permission of the instructor required.

3 points. Hours TBA.

CSC W 3998x, y
Undergraduate Projects in Computer Science

This course may be repeated for credit but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design. —Staff

Prerequisite: Approval by a faculty member who agrees to supervise the work.

Up to 3 points. Hours TBA.

CSC W 4111x
Database Systems

Introduction to database systems: data modeling; logical design of relational databases, data definition and data manipulation languages, storage and indexing techniques, concurrency control, recovery; query processing, security and integrity, system administration, essentials of distributed operation. —K. Ross

Prerequisite: CSC W 3152, W 3232, W 3824 or permission of the instructor.

3 points. Hours TBA.

CSC W 4115x**Programming Languages and Translators**

Covers language design issues; syntax; the translation process; names, locations and values; control structures; data types; input and output; procedures and parameters; nesting and scope; definition of new data types; dynamically varying structures; applicative languages; exception handling; parallel processing; and separately compiled modules. A large language implementation project is required. —G. Kaiser

Prerequisite: W 3152, W 3232, W 3261, W 3824, or permission of the instructor.

3 points. Hours TBA.

CSC W 4118x**Operating Systems, I**

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor scheduling, device management I/O, and file systems. Case study of the UNIX operating system. A programming project will be required. —D. Duchamp

Prerequisites: W 3152, W 3232, W 3824, or permission of the instructor.

3 points. Hours TBA.

CSC W 4119y**Computer Networks**

The design of system software to support computer networks, layered protocol architecture, distributed operating systems. A programming project will be required. —Y. Yemini

Prerequisite: W 4118.

3 points. Hours TBA.

CSC W 4156x**Software Engineering**

Design and implementation of software systems. The software life cycle: requirements definition, specification, design, implementation, testing, and maintenance. User interfaces. Documentation. Management. Verification. A substantial group project is required. —S. Feiner

Prerequisite: W 3152, W 3232, or permission of the instructor. *Recommended preparation:* W 4118.

3 points. Hours TBA.

CSC W 4160x, y**Computer Graphics**

An intensive introduction to computer graphics. Graphics hardware, design of graphics packages, interaction techniques, geometric transformations, 3D viewing and projections, raster scan conversion algorithms, image synthesis, visible surface determination, lighting and shading, representation of 3D shapes, object modeling and hierarchy, color, and animation. Advanced topics as time permits. Emphasis is on implementation of important graphics algorithms. —S. Feiner

Prerequisites: W 3232, and either W 3152 or W 4156. *Previous familiarity with C and UNIX is recommended.*

3 points. M W 5:40-6:55

CSC W 4201x, y**Theory of Complexity**

Theory of computation, structure of complexity classes, computational complexity theory, feasible and infeasible computations. —T. Tsantilas

Prerequisite: W 3261 or permission of the instructor.

3 points. Hours TBA.

CSC W 4203y**Graph Theory**

General introduction to graph theory, emphasizing algorithms. Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search, network flows, bipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits. —J. Gross

Prerequisite: W 3203.

3 points. Hours TBA.

CSC W 4205x**Combinatorial Theory**

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits. —J. Gross

Prerequisites: CSC W 3203 and a course in calculus.

3 points. Hours TBA.

CSC W 4231x

Analysis of Algorithms I

CSC E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects, methods for the analysis of algorithms, counting and asymptotic evaluation analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations. Fourier transform, models of computation, the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms, elements of abstract complexity theory; complexity hierarchies, polynomial and NP problems, lower bounds on the complexity of various problems in various models, worst-case and average behavior of algorithms, Diophantine complexity, applications to cryptography and public key systems, linear programming and its complexity, the simplex and Khacian methods, average behavior of the simplex method. Other topics as time permits. —Z. Galil
Prerequisites: W 3137, W 3203.

3 points. M W 11:00-12:15

CSC W 4241x

Numerical Algorithms and Complexity I

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of non-linear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. Some of these topics are covered in the sequel, CSC W 4242y. —J. Traub
Prerequisite: Knowledge of programming language. Some knowledge of differential equations and linear algebra is desirable.

3 points. Tu Th 2:40-3:55

CSC W 4701x, y

Artificial Intelligence

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching; depth-first, breadth-first, best-first, hill-climbing, divide and conquer, minimax, alpha-beta, predicate calculus, resolution theorem-proving; Horn clause theorem-provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits. —S. Stolfo
Prerequisite: W 3137.

3 points. Hours TBA.

CSC W 4705x, y

Natural Language Processing

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP is recommended.

—K. McKeown

Prerequisite: W 3137.

3 points. Hours TBA.

CSC W 4721x, y

Knowledge-based Expert Systems

Focus is on current methods of implementing AI expert systems. Topics covered include the structure of problem-solving engines and knowledge bases for expert performance; problem taxonomies; methods to automate the acquisition of human experiential knowledge, methods to automate the explanation of problem-solving behavior; examples of existing expert systems and their application areas. —S. Stolfo

Prerequisite: W 4701.

3 points. Hours TBA.

CSC W 4731x

Computer Vision

The fundamentals of computer vision, viewed from an artificial intelligence perspective. Image formation. Low-level processing: edge detection, stereo, shape from shading, optical flow. Middle-level processing: line and curve aggregation, region growing, texture, image sequences. High-level processing: shape representations in two and three dimensions. Image understanding: knowledge bases, matching, inference, and planning. Other topics as time permits. Course programming project required. —S. Nayar

Prerequisite: W 4701 or permission of the instructor.

3 points. Hours TBA.

CSC W 4733x, y

Computational Aspects of Robotics

Introduction to robotics from a Computer Science perspective. Topics include coordinate frames and kinematics, computer architectures for robotics, integration and use of sensors, world modeling systems, design and use of robotic programming languages, and applications of artificial intelligence for planning, assembly and manipulation.

—P. Allen

Prerequisite: W 4701.

3 points. Hours TBA.

CSC W 4901x**Projects in Computer Science**

A second level independent project involving laboratory work, computer programming, analytical investigation or engineering design. May be repeated for credit, but not for more than a total of 3 points of degree credit.

Prerequisite: Approval by a faculty member who agrees to supervise the work.

CSC W 4995x, y**Special Topics in Computer Science**

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis. This course may be repeated for credit. — Instructor to be announced.

Permission of the instructor required.

3 points. Hours TBA.

CSC W 4996x, y**Special Topics in Computer Science**

A continuation of Course W 4995, when the special topic is to be offered over two semesters.

— Instructor to be announced.

Permission of the instructor required.

3 points. Hours TBA.

CSC W 4999x, y**Computing for Humanities**

Examines computer science problems in humanities applications such as literary computing, online texts, history and legal applications. Appropriate for advanced undergraduate humanities students who want to explore the use of computational tools and approaches in their studies.

—J. Klavans

Permission of the instructor required.

3 points. M W 4:10-5:25.

Professor: Sandra Genter

Senior Lecturer: Janet Soares (Chair)

Assistant Professor: Ellen Graff

Senior Associate: Janis Ansley-Ungar

Adjunct Professor: Deborah Jowitt

Associates: Donlin Foreman, Katiti King, Elena Kunikova, Francine Landes, Gloria Marina, Kraig Patterson

Technical Director for Dance: Rhonda Rubinson

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill and originality in choreography, and critical understanding of the art of dance as a part of history and culture. Emphasis is placed on performing opportunities in ballet and modern idioms each semester, and on the encouragement of each student's growth as a creative artist.

Studios and theaters in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach, choreograph, and present symposia and workshops throughout the year.

All dance courses except Senior Seminar are open to students who meet the prerequisites. Barnard College is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in their first year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR

A minimum of 13 courses are required for the dance major. In addition, majors normally take two technique courses per semester. A Senior Major Project must be completed either in a research thesis or a performance in dance under the supervision of a chosen department adviser.

I. Nine required courses must include:

DAN BC 2561	<i>Kinesiology</i>
DAN BC 2562	<i>Movement Analysis</i>
DAN BC 2563	<i>Dance Composition: Form</i>
DAN BC 2564	<i>Dance Composition: Content</i>
DAN BC 2565	<i>History of Dance I: Multi-Cultural Perspectives</i>
DAN BC 2566	<i>History of Dance II: Renaissance to the Present</i>
DAN BC 3571	<i>Performance Styles</i>
DAN BC 3572	<i>Repertory in Production</i>
DAN BC 3591	<i>Senior Seminar for Dance</i>

II. Two courses elected from the following:

DAN BC 2555	<i>Ensemble Dance Repertory</i>
DAN BC 2567	<i>Fundamentals of Music for Dancers</i>
DAN BC 3576	<i>Dance Criticism</i>
DAN BC 3574	<i>Seminar on Contemporary Choreographers and Their Works</i>
DAN BC 3577	<i>Performing the Political</i>

- III. Two non-department courses to be elected in pursuit of the historical and cultural contexts of dance which will fulfill both the major and distribution requirements. Courses in philosophy of art, cultural history, art, music and theater history, anthropology, and religion may be chosen with permission of department chair. One of these will fulfill distribution as well as major requirements. ARS BC 3031 *Imagery and Form in the Arts* is highly recommended.
- IV. A minimum of six points of dance technique courses.

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chair.

COURSES OF INSTRUCTION

DAN BC 2561x

Kinesiology

Focus on physical sciences that relate to human movement, with an emphasis on functional anatomy. Topics include skeletal structure, physics of dance, muscular balance, and improving movement potential. —S. Genter
3 points. Tu Th 1:10-2:25

DAN BC 2562y

Movement Analysis

Study of the nature of human movement concentrating on the basic elements of space, time, and body dynamics through readings, viewings, experimentation, and discussion. Learning descriptive movement language and analytical skill from the concepts of Rudolph Laban and other movement theorists. Includes written and performance projects. —S. Genter
3 points. Tu Th 1:10-2:25

DAN BC 3571x

Performance Styles

The study of solo excerpts from classical and modern repertory and the presentation of individual research in both written and performance format. Emphasis will be placed on the role that the dancer must play to facilitate the realization of the choreographer's concept. —J. Ansley-Ungar
3 points. M W 1:10-2:25

DAN BC 3572y

Repertory in Production

The relationship of dance repertory and production. The rigorous study of the visual elements of dance design through aesthetic and critical evaluation of scenographic techniques as they relate to specific dance repertory works. —R. Robinson and J. Soares
3 points. F 12:10-2:00

DAN BC 2555y

Ensemble Dance Repertory

The study and performance of choreography using three approaches: learning excerpts from the repertoire of selected contemporary choreographers, analyzing through reconstruction classic repertory work by means of Labanotation, and understanding the choreographic process by working in a creation from initial concept to finished dance. —S. Genter
3 points. Tu Th 4:10-5:25

DAN BC 2563x

Dance Composition: Form

The study of choreography as a creative art. The development and organization of movement materials according to formal principles of composition in solo and duet forms. Applicable to all styles of dance. —J. Soares
3 points. Tu Th 4:10-5:25

DAN BC 2564y

Dance Composition: Content

Continued study of choreography as a communicative performing art. This semester of dance making focuses on the exploration of ideas and meaning. The emphasis is placed on the development of personal style as an expressive medium, and unity of style in each work. Group as well as solo compositions will be assigned. —J. Soares
3 points. M W 1:10-2:25

DAN BC 2565x

History of Dance I: Multi-Cultural Perspectives

Investigates the multi-cultural perspectives of dance in major areas of culture in the world to include African, Asian, Hispanic, Indian, Mid-eastern, as well as dance history of the Americas through reading, writing, viewing, and discussion

DANCE

of a wide range of resources, such as films, original documents, demonstrations and performances. —E. Graff

3 points. Tu Th 10:35-11:50 II H

DAN BC 2566y

History of Dance II: Renaissance to the Present

Focuses on the history of theater dance forms originating in Europe and America from the Renaissance to the present. Includes reading, writing, viewing and discussion of sources such as film, text, original documentation, demonstration and performance. —E. Graff

3 points. Tu Th 10:35-11:50 III H

DAN BC 2567y

Fundamentals of Music for Dancers

Intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of rhythm, tonality, musical structure, texture, and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading, and elementary composition. —Instructor TBA.

3 points. Not offered in 1994-95.

DAN BC 3099x, y

Independent Study —Staff

1-4 points.

DAN BC 3574x

Seminar on Contemporary Choreographers and Their Works

3 points. Not offered in 1994-95.

DAN BC 3576y

Dance Criticism

Prerequisite: Writing samples must be submitted and accepted.

3 points. Not offered in 1994-95.

DAN BC 3577y

Performing the Political: Embodying Change in 20th-Century American Performance

An examination of ways in which political and social ideologies are embodied in 20th-century American performance. Topics include venues designed to support traditional values, as well as to propagandize, such as pageantry, workers' theatre and dance, and performance art. Reading and viewing assignments. —E. Graff

3 points. M W 10:35-11:50 III H

DAN BC 3591x

Senior Seminar in Dance

Research and scholarly writing in chosen topics relating to dance. Methods of investigation will be drawn from prominent archival collections and personal interviews, as well as other resources. Papers will be formally presented to the Dance Department upon completion. —J. Soares

4 points. W 4:10-6:00

BC 3592x, y

Senior Project: Research for Dance

Independent study for research and writing (35-50 page thesis required). —Staff

3 points. Hours TBA.

BC 3593x, y

Senior Project: Repertory for Dance

Independent study for preparing and performing repertory works in production to be presented in concert. —Staff

3 points. Hours TBA.

DANCE TECHNIQUE COURSES

Level I courses receive a P/D/F and have no prerequisite. All others will receive a letter grade and require a placement audition (at the first meeting) or permission of the instructor. All courses listed below may be taken for 0 credit to fulfill the physical education requirement. One-point dance technique courses taken by non-dance majors for credit over and above the physical education requirement are included in the existing maximum of 18 points of studio, performing art, or professional school courses which may be credited toward the degree; a maximum of six courses in dance technique can be credited. A student who takes more than two one-point dance technique courses for credit beyond the physical education requirement is required to validate the third and fourth dance technique courses in each of the two semesters with a concurrent course offered by the Dance Department which does not contain a technique component.

Modern Dance

The study of contemporary dance based on the work of 20th-century innovators, Cunningham, Graham, Humphrey, Limón, and others. Aesthetic principles of modern dance will be taught with increased technical demands required in each successive level.

DAN BC 1329x**Fundamentals of Dance Movement**

Introduction to basic movement techniques common to all dance styles. —Instructor TBA.
1 point. Not offered in 1994-95.

DAN BC 1330x, 1331y**Modern I: Beginning Modern Dance**

1 point. x: Sec. 1 Tu Th 9:10-10:25 —E. Graff
Sec. 2 M W 1:10-2:25 —S. Genter
y: Sec. 1 Tu Th 9:10-10:25 —S. Genter
Sec. 2 M W 2:40-3:55 —S. Genter

DAN BC 1332x, 1333y**Modern II:****Advanced Beginning Modern Dance**

1 point. x: W F 9:10-10:25 —F. Landes
y: Tu Th 9:10-10:25 —E. Graff

DAN BC 2332x, 2333y**Modern III: Intermediate Modern Dance**

1 point. x: Sec. 1 M W 2:40-3:55 —S. Genter
Sec. 2 Tu Th 6:30-8:00 —K. Patterson
y: M W 9:10-10:25 —F. Landes

DAN BC 2334x, 2335y**Modern IV: High Intermediate Modern Dance**

1 point. x: W F 10:35-11:50 —F. Landes
y: M W 6:30-8:00 —K. Patterson

DAN BC 3332x, y**Modern V: Advanced Modern Dance**

1 point. x: Tu Th 10:35-11:50 —D. Foreman
y: W F 10:35-11:50 —F. Landes

DAN BC 3336y**Modern VI: High Advanced Modern Dance**

—D. Foreman
1 point. Tu Th 10:35-11:50

DAN BC 3334y**Improvisation**

Techniques of invention through problem-solving methods in dance. —S. Genter
1 point. M W 1:10-2:25

Ballet

Technique of classical ballet emphasizing proper alignment and graduated study of its vocabulary. Artistry of articulation, phrasing, dynamics, nuance in the spectrum of classical materials will be addressed at each level.

DAN BC 1135x, y**Ballet I: Beginning Ballet**

1 point.
x: Sec. 1 M W 10:35-11:50 —J. Ansley-Ungar
Sec. 2 Tu Th 9:10-10:25 —J. Ansley-Ungar
y: Sec. 1 Tu Th 9:10-10:25 —J. Ansley-Ungar
Sec. 2 M W 2:40-3:55 —J. Soares

DAN BC 1137x, 1138y**Ballet II: Advanced Beginning Ballet**

1 point. x: Tu Th 10:35-11:50 —J. Ansley-Ungar
y: M W 10:35-11:50 —J. Ansley-Ungar

DAN BC 1553y**Ballet Technique and Theory**

2 points. Not offered in 1994-95.

DAN BC 2137x**Ballet III: Intermediate Ballet**

1 point. Tu Th 2:40-3:55 —E. Kunikova

DAN BC 2139x, 2140y**Ballet IV: High Intermediate Ballet**

1 point. x: M W 9:10-10:25 —J. Ansley-Ungar
y: Tu Th 2:40-3:55 —E. Kunikova

DAN BC 3138x, 3139y**Ballet V: Advanced Ballet**

1 point. x: Tu Th 4:10-5:25 —E. Kunikova
y: M W 9:10-10:25 —J. Ansley-Ungar

DAN BC 3141y**Ballet VI: Advanced Ballet and Pointe**

—E. Kunikova
1 point. Tu Th 4:10-5:25

DAN BC 3142x or y**Classic Variations**

Prerequisite/corequisite: DAN BC 3138x, BC 3139y, or BC 3141y.
1 point. Not offered in 1994-95.

DANCE STYLES

The study of indigenous dance forms including character, classical Spanish, jazz, musical theatre and tap.

DAN BC 1247x**Jazz I: Beginning Jazz Dance**

—K. King
Prerequisite: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.
1 point. Tu Th 1:10-2:25

DANCE

DAN BC 2248x, y

Jazz II: Intermediate Jazz Dance

—K. King

Prerequisite: DAN BC 1247 or permission of the Dance Department.

1 point. x: Tu Th 2:40-3:55

y: Tu Th 1:10-2:25

DAN BC 3249y

Jazz III: Advanced Jazz Dance

—K. King

Prerequisite: DAN BC 2248x, y

1 point. Tu Th 2:40-3:55

DAN BC 1446y

Tap I: Beginning Tap Dance

—J. Ansley-Ungar

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point Tu Th 10:35-11:50

DAN BC 2447x, y

Tap Dance II: Intermediate Tap

Prerequisites: DAN BC 1446x, y or permission of the Dance Department.

1 point Not offered in 1994-95.

DAN BC 2140x, y

Musical Theater Dance

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point Not offered in 1994-95.

DAN BC 2141x, y

Character Dance

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point. Not offered in 1994-95.

DAN BC 3250x

Classical Spanish Dance I

—G. Marina

Prerequisites: DAN BC 1137x, BC 1138y, BC 1332x, or BC 1333y, or permission of the Dance Department. Intermediate level in modern or ballet technique is required.

1 point M W 2:40-3:55

DAN BC 3353y

Classical Spanish Dance II

—G. Marina

Prerequisites: DAN BC 3250x, y, or permission of the Dance Department.

1 point M W 4:10-5:25

Professors: André Burgstaller (Co-Chair), Duncan Foley (Co-Chair), Deborah Milenkovich¹

Adjunct Professor: Joan Greenbaum

Assistant Professors: Linda Barrington², Cecilia Conrad, Perry Mehrling¹

Visiting Assistant Professors: Umamaheshwara Kalpagam, Lalith Munasinghe, Akira Motomura, Ajay Mahal, Masako Kurosawa

Other officers of the University offering courses listed below:

Professors: Graciela Chichilnisky, Padma Desai, Richard Ericson, Fumio Hayashi, Kelvin Lancaster, Robert Mundell, Stanislaw Wellisz, Harold Watts

Associate Professors: Christopher Cavanagh, Prajit Dutta, Brendan O'Flaherty, Joe Tracy

Assistant Professors: John McLaren, Ronald Miller, Katherine Morgan

Adjunct Professors: Andrew Abere, Carol Osler, Vahid Nowshirvani, Carl Riskin, Lewis Schier

¹Absent on leave 1994-95

²Absent on leave Spring term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. Barnard's major programs in economics also prepare students for graduate work in economics, business, law, public administration, and international relations and related fields, as well as for careers in business, finance, and government. The aims of the programs are: (i) to foster a critical understanding of economics and its relations to other disciplines; (ii) to develop students' mastery of modern economic theory and its tools of analysis.

Students planning to major in economics or political economy should complete both intermediate macro- and microeconomic theory by the beginning of their junior year. Before they are allowed to register for the senior essay, students must have completed all of their required courses for the major, as well as those of their upper-level electives with intermediate micro- or macroeconomic theory as a prerequisite and, for Political Economy track majors, the upper-level political science course.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points of credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in the number of courses required, but different in scope and focus. The track in Economics teaches students the theory and the analytical and mathematical tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy emphasizes the roots of modern economics in the history of economic thought and the interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Prospective majors should discuss their programs with any member of the department no later than the second semester of their sophomore year. At the time of declaring the major, the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major that includes economics should consult the chairman of the department as early in their planning as possible.

Economics

The Economics track major requires one semester of calculus—a second semester is strongly recommended— and nine courses in economics including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy</i>
ECO BC 3018	<i>Econometrics;</i>

one of the following:

ECO BC 2411	<i>Statistics for Economics</i>
STA W 1111	<i>Introduction to Statistics</i>
STA W 1001	<i>Introduction to Statistical Reasoning;</i>

two electives with intermediate micro- or macroeconomic theory as a prerequisite; and

ECO BC 3061-3062	<i>Senior Research Seminar.</i>
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Political Economy

The Political Economy track major requires 11 courses, including:

ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy;</i>

three electives with intermediate micro- or macroeconomic theory as a prerequisite;

two electives in economics (excluding introductory economics) or a related discipline;

one upper-level course in political science*; and

ECO BC 3061-3062	<i>Senior Research Seminar.</i>
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*The following political science courses are not considered upper-level:

BC 3001	<i>Dynamics of American Politics;</i>
V 3505	<i>Introduction to Comparative Politics;</i>
V 3611	<i>International Politics;</i>
BC 3013	<i>Political Theory.</i>

Both Economics and Political Economy track majors must file the “Major Requirements Declaration” form—available from the department office—no later than at registration for the first semester of their senior year. This form must be approved by the chair before a student will be allowed to register for the senior thesis, BC 3061-3062.

We recommend that all Political Economy track majors — especially those majors who plan to go on to business school or to graduate school in public administration or international relations — take one semester of college-credit math (either pre-calculus or calculus) and Economics BC 2411. Political Economy track majors who plan to go on to graduate school Ph.D. programs in economics should take two years of mathematics, including one year of calculus, and statistics and econometrics.

Mathematics Training for the Major

The department expects *all* majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry.

REQUIREMENTS FOR THE MINOR

The minor in economics requires five courses, including an introductory course in economics, BC 3033 or BC 3035, and three electives, one of which has an intermediate micro- or macroeconomic theory course as a prerequisite.

COURSES OF INSTRUCTION

INTRODUCTORY COURSES

The principles of economics and statistics; may be taken without previous study of economics or statistics.

ECO BC 1001x, y
Introduction to Economics

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, fiscal and monetary policy, international economics, economic growth and inequality, problems of developing nations. (Macroeconomic Principles.)

Credit cannot be granted for both BC 1001 and W 1105.
 3 points. x: M W 2:40-3:55 —D. Foley III S
 y: Tu Th 1:10-2:25 —A. Mahal

ECO BC 1002x, y
Introduction to Economics

Basic concepts of economic analysis, with emphasis on resource allocation: utility and demand, cost and supply, determination of prices and income distribution through demand and supply, market structures, and alternative economic systems. (Microeconomic Principles.)

BC 1001 is not a prerequisite for BC 1002. Credit cannot be granted for both BC 1002 and W 1105.
 3 points. x: M W 1:10-2:25 —L. Barrington S
 y: M W 1:10-2:25 —L. Munasinghe

ECO BC 2035y
Microeconomic Policy Analysis

Introduction to microeconomics theory and cost/benefit analysis through case studies. Specific cases studied may vary from year to year, but will always include at least one case from each of the following three subject areas: (1) environmental policy, (2) tax policy and income redistribution, and (3) urban economic development. —A. Motomura
 3 points. Tu Th 1:10-2:25 S

ECO BC 2411x
Statistics for Economics

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One-hour weekly recitation sessions to complement lectures. —L. Barrington
 4 points. M W 11:00-12:15 S

ECO BC 2412x, y
Empirical Methods for Economics

1 point. *Not offered in 1994-95.*

GENERAL COURSES

The study of history and of contemporary society in an economic perspective; institutional and traditional approaches.

These courses may be taken without previous study of economics.

ECO BC 2010x
Sex, Discrimination, and the Division of Labor

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework and childbearing; role of government and unions in structuring women's options; and some international comparisons. —C. Conrad

3 points. M W 2:40-3:55 I S

ECO BC 2013x
Economic History of the United States

Economic transformation of the United States from the colonial period to the present. —A. Motomura
 3 points. Tu Th 1:10-2:25 III S

ECO BC 2014y
Topics in Economic History

Topics in economic history of the instructor's choice. —A. Motomura
 3 points. Tu Th 4:10-5:25 III S

ECO BC 2024y
Women in International Development

An exploration of the critical issues related to Third World women as they have emerged over the past decade: the effects of development on poor urban and rural women. —U. Kalpagam
 3 points. Tu Th 10:35-11:50 I S

ECO BC 2025x
World Economy

—U. Kalpagam
 3 points. Tu Th 10:35-11:50

ECO BC 2026y
Modern Capitalism

3 points. *Not offered in 1994-95.* S

UPPER-LEVEL REQUIRED COURSES

The courses and seminars listed below, required of Political Economy and/or Economics track students, constitutes the core of the Barnard economics major.

ECO BC 3018y
Econometrics

Specification, estimation, and evaluation of economic relationships using economic theory, data and

statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets. —M. Kurosawa
Prerequisites: BC 3035 or BC 3033, and BC 2411 or STA W 1111 or STA W 1001, or permission of the instructor.

4 points. Lecture M W 4:10-5:25 S
Laboratory hours TBA.

ECO BC 3033x, y
Intermediate Macroeconomic Theory

Systematic exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments. Weekly recitation section to complement lectures.

Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.

4 points. S
Primarily for majors in the Economics track:
x: Tu Th 9:10-10:25 —A. Mahal
Primarily for majors in the Political Economy track:
y: M W 4:10-5:25 —L. Munasinghe

ECO BC 3035x, y
Intermediate Microeconomic Theory

Preferences and demand; production, cost and supply; behavior of markets in partial equilibrium; resource allocation in general equilibrium; pricing of goods and services under alternative market structures; implications of individual decision-making for labor supply; income distribution, welfare, and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures.

4 points.
Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track.

x: M W 1:10-2:25 —L. Munasinghe S
Prerequisites: An introductory course in economics or permission of the instructor, and 1 semester of calculus. This section is primarily for students in the Economics track.

y: M W 1:10-2:25 —M. Kurosawa S

ECO BC 3041x, y
Theoretical Foundations of Political Economy

Intellectual origins of the main schools of thought in political economy. Study of the founding texts in classical political economy, Marxian economics, Neo-classicism, and Keynesianism.

Prerequisite: An introductory course in economics or permission of the instructor.
3 points.

x: Tu Th 4:10-5:25 —A. Burgstaller III S
y: Tu Th 2:40-3:55 —D. Foley

ECO BC 3061x, 3062y
Senior Research Seminar

Tutorials and conferences on the research for and writing of the senior essay. —Staff

Prerequisites: The completion of all courses required for the major, of those elective courses with BC 3033 or BC 3035 as prerequisites, and (for Political Economy track majors) of the upper-level political science course; exceptions may be granted by the chair of the department only. See the department office for application forms.

4 points. W 4:10-6:00

UPPER-LEVEL ELECTIVE COURSES

ECO BC 3011y
Poverty and Income Distribution

Issues of definition and measurement relating to poverty and distribution of income in the U.S., analysis of cross section and time-series data; alternative economic theories of poverty and income distribution, e.g., transfers, wage subsidies, training programs. —C. Conrad
Prerequisite: BC 3035 or BC 3033, or permission of the instructor.

3 points. M W 2:40-3:55 S

ECO BC 3016x
Spending, Deficits and Taxes

—A. Mahal
Prerequisite: BC 3035 or BC 3033 or permission of the instructor.— A. Mahal
3 points. Tu Th 1:10-2:25 S

ECO BC 3019x
Labor Economics

Factors affecting the allocation and remuneration of labor; population structure; unionization and monopsony; education and training, mobility and information; sex and race discrimination; unemployment; and public policy. —L. Munasinghe
Prerequisite: BC 3035, or permission of the instructor.

3 points. M W 4:10-5:25 S

ECO BC 3021y
The Regulation of Industry

The economic effects of government regulation of industry; the history, structure, and organization of regulatory agencies; the theory of natural monopoly and public utility pricing; the costs and benefits of health and safety regulations; case studies of specific industries. —C. Conrad

Prerequisite: BC 3035.
3 points. M W 1:10-2:25 S

ECO BC 3029x
The Economics of Underdeveloped Areas

Theories of economic underdevelopment and development; selected problems in trade, foreign

investment, technological change, industrialization, agriculture and state policy. —U. Kalpagam
Prerequisite: BC 3035 or BC 3033, or permission of the instructor.

3 points. Tu Th 2:40-3:55 I S

ECO BC 3030y
Comparative Economic Systems

Prerequisite: BC 3035 or permission of the instructor.
 3 points. Not offered in 1994-95. I S

ECO BC 3036y
Financial Markets

Institutional nature and economic function of financial markets. Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, eurocurrency, futures, options, and other). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis; macroeconomic factors and asset returns. —Instructor TBA.
Prerequisites: BC 3033 or BC 3035 and BC 2411, STA W 1111 or STA W 1001.

3 points. Tu Th 10:35-11:50 S

ECO BC 3037y
Growth and Distribution

Classical theories of growth and distribution and their modern transformations; the dynamic effects of changes in technology, savings behavior, and the distribution between wages and profits on the rate of economic growth; growth dynamics with limited resources; multi-sectoral growth models, relative prices, and the uniform rate of profit; applications to the study of real economics. —A. Burgstaller
Prerequisites: BC 3033 or BC 3035, or permission of the instructor.

3 points. Tu Th 1:10-2:25 S

ECO BC 3038y
International Money and Finance

Prerequisites: BC 3033
 3 points. Not offered in 1994-95. S

ECO BC 3039y
Natural Resources and Environmental Economics

Prerequisite: ECO BC 1002 or ECO BC 2035.
Prerequisite for Economics majors: ECO BC 3035.
 3 points. Not offered in 1994-95. S

ECO BC 3051y
Law and Economics

Prerequisites: BC 3035
 3 points. Not offered in 1994-95. S

ECO BC 3063x

Seminar: Topics in Economic Theory

Prerequisite: BC 3035 or BC 3033, and permission of the instructor.
 4 points. Not offered in 1994-95. S

ECO BC 3064y

Seminar: Topics in Economic Policy

Topics on the economics of health care. —A. Mahal
Prerequisites: BC 3035 or BC 3033, and permission of the instructor.
 4 points. Hours TBA. S

ECO BC 3065x

Seminar in Business Organization

A seminar on the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies. —A. Motomura
Prerequisites: BC 3035 and permission of the instructor.
 4 points. Th 4:10-6:00 I S

ECO BC 3099x, y
Independent Study

—Staff
Points TBA. Hours TBA.

ECO W 4258y

Worker Management

Prerequisite: BC 3035 or BC 3033, or permission of the instructor.
 3 points. Not offered in 1994-95. III S

ECO W 4524y

Economic Organization of Eastern Europe

Economics of Eastern Europe since WWII. Basic outlines and legacies of centrally planned systems. Failure of strategies to reform centrally planned systems. Transformation into modern economies, with focus on redefining property rights, social safety nets, systems of taxation, and the role of government in the economy. —S. Wellisz
Prerequisite: BC 3035 or BC 3033, or permission of the instructor.
 3 points. W 9:00-10:50 III S

ECO W 4435x

Economics of Socialism

Prerequisite: BC 3035 or permission of the instructor.
 3 points. Not offered in 1994-95. I S

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.

Note: Barnard Economics BC 3033 is equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211. Please consult the department office for a list of Columbia economics courses whose subject matter overlaps directly with Barnard economics courses (only one of two such courses will earn credit).

ECO W 3022x
Economics of Finance

—Instructor TBA
Prerequisites: calculus, statistics, and intermediate microeconomics.
3 points. Hours TBA.
(Equivalent to BC 3036)

ECO W 3228x
The Urban Economy

—B. O'Flaherty
Prerequisite: W 3211.
3 points. Tu Th 11:00-12:15

ECO W 3251x
Industrial Organization

—J. McLaren
Prerequisite: W 3211
3 points. Tu Th 11:00-12:15

ECO W 3261y
Introduction to Accounting and Finance

4 points. Sec. 1 Tu Th 12:10-2:00 —L. Schier
Sec. 2 M W 6:10-8:00 —K. Morgan
(Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.)

ECO W 3321y
Economic Development

—J. McLaren
Prerequisite: Economics W 3211.
3 points. Tu Th 10:35-11:50
(Equivalent to BC 3029)

ECO W 3411y
Labor Economics

—H. Watts
Prerequisite: W 3211.
3 points. Not offered in 1994-95.
(Equivalent to BC 3019)

ECO W 3412x, y
Econometrics

Prerequisites: Statistics W 1111 or the equivalent and W 3211 or W 3213.
3 points.

x: Sec. 1 Tu Th 6:10-7:25 —R. Miller
Sec. 2 M W 2:40-3:55 —J. Tracy
y: Sec. 1 M W 10:35-11:50 —J. Tracy
Sec 2 Hours TBA —C. Cavanagh
(Equivalent to BC 3018)

ECO W 3415y
Game Theory

—P. Dutta
Prerequisite: Economics W 3211.
3 points. Tu Th 2:40-3:55

ECO W 3610x
The Economic Analysis of Law

—A. Abere
Prerequisite: Economics W 3211.
3 points. M W 9:10-10:25
(Equivalent to BC 3051)

ECO W 3711y
Monetary Economics and Policy

—C. Osler
Prerequisite: W 3213.
3 points. Tu Th 6:10-7:25

ECO W 3863y
Public Economics

—Instructor TBA
Prerequisite: W 3211.
3 points. Not offered in 1994-95.
(Equivalent to BC 3016)

ECO W 3904x
International Trade

—R. Mundell
Prerequisite: W 3211.
3 points. M W 4:10-5:25

ECO W 3905x
International Monetary Theory and Policy

—C. Osler
Prerequisite: W 3213.
3 points. Tu Th 6:10-7:25

ECO W 4235x
Historical Foundations of Modern Economics: Adam Smith to JM Keynes

—Instructor TBA.
3 points. Hours TBA.
(Equivalent to BC 3041)

ECO G 4325x Economic Organization and Development of Japan —F. Hayashi <i>Prerequisites:</i> W 3211 or W 3213. 3 points. M W 10:35-11:50		ECO W 4526y Current Economic Problems of the CIS —P. Desai <i>Prerequisite:</i> W 1105. 3 points. M 2:10-4:00	
	S		
ECO W 4337x Economic Organization and Development of the Middle East —V. Nowshirvani <i>Prerequisite:</i> W 1105. 3 points. M 4:10-6:00		ECO G 4527y Economic Organization and Development of China —C. Riskin <i>Prerequisite:</i> W 1105. 3 points. Tu 4:10-6:00	S
	S		
ECO G 4523x Economic Organization and Development of the CIS —R. Ericson <i>Prerequisite:</i> W 1105. 3 points. Not offered in 1994-95.		ECO W 4625x The Economics of the Environment —G. Chichilnisky <i>Prerequisite:</i> W 3211. 3 points. Tu Th 1:10-2:25 (Equivalent to BC 3039)	
	S		

This program is supervised by the Committee on Economic History.

Economics: Linda Barrington² (Program Adviser), Akira Motomura

History: Deborah Valenze¹

¹Absent on leave 1994-95.

²Absent on leave Spring term.

The Economic History Program seeks to develop an understanding of the historical process from an economic perspective. The program combines a solid background in economic analysis with an in-depth study of history. Majors in this program will be prepared to enter graduate programs in law, business, public policy, or administration, as well as economics and history.

REQUIREMENTS FOR THE MAJOR

A major in Economic History must complete the following 11 courses or their equivalents:

ECO BC 2013

Economic History of the United States

ECO BC 3041

Theoretical Foundations of Political Economy

Two of the following:

ECO 3033

Intermediate Macroeconomic Theory

ECO 3035

Intermediate Microeconomic Theory

ECO 2411

Statistics for Economics

ECH BC 3066.

Colloquium in Economic History.

(Students must have completed all the course requirements listed above ECH 3066 before taking the Colloquium.)

Four History courses (three within a single concentration) selected in consultation with the major adviser.

Two semesters of Senior Research Seminar in Economics or History.

(Students must have completed all the requirements for the major before they will be permitted to register for the Senior Research Seminar.)

No minor is offered in the Economic History Program.

COURSES OF INSTRUCTION

ECH BC 3066

Colloquium in Economic History

Analytical and empirical methods in economic history through intensive study of one subject area, drawn from American and European economic history in alternate years. Specific topic to be determined by the instructor. —Instructor TBA.

Prerequisites: ECO BC 2013, 3041, and two of the following: ECO BC 3033, 3035, 2411 or equivalent.

4 points. Hours TBA.

Economics Department Representative: Duncan Foley
Mathematics Department Representative: David Bayer

The Economics and Mathematics major provides the student with a grounding in economic theory comparable to that provided by the general economics major, and exposes the student to rigorous and extensive training in mathematics. The program will be particularly useful for students planning to do graduate work in economics, which frequently demands greater mathematical training than that acquired through the minimum requirements of the basic economics degree.

REQUIREMENTS FOR THE MAJOR

A major in Economics and Mathematics must complete the following 14 courses or their equivalents:

Economics: (7 courses)

ECO BC 3018	<i>Econometrics</i>
ECO BC 3033	<i>Intermediate Macroeconomic Theory</i>
ECO BC 3035	<i>Intermediate Microeconomic Theory</i>
ECO BC 3041	<i>Theoretical Foundations of Political Economy</i>
ECO BC 3062	<i>Senior Research Seminar</i> (two semesters of the Senior Research Seminar are optional)

Two electives with an intermediate micro- or macroeconomic theory course as prerequisite

Mathematics: (7 courses)

MAT V 1105	<i>Calculus IS</i>
MAT V 1106	<i>Calculus IIS</i>
MAT V 3202	<i>Linear Algebra</i>
MAT W 4061	<i>Introduction to Modern Analysis</i>
or	
MAT V 2500	<i>Analysis and Optimization</i>
STAT-IEOR W 4150	<i>Introduction to Probability and Statistics</i> (this replaces ECO BC 2411 Statistics for Economics)

Two electives above the 2000 level.

Calculus IA, IIA, IIIA, or Honors Calculus may be substituted for IS, IIS with permission from the economics and mathematics department representatives. Students must obtain approval from each department representative before selecting electives. In exceptional cases, these may be from related fields.

336B Milbank Hall

854-2117, 5408, 7072

Senior Lecturer: Susan Riemer Sacks (Program Director)

Senior Associate: Katherine Knight Wilcox

Associate: Christine Valenza

This program is supervised by the Committee on Education:

Professor of English: Elizabeth Dalton

Professor of Spanish: Mirella Servodidio

Professor of Psychology: Peter Balsam

Associate Dean of Columbia College: Kathryn Yatrakis

Dean of Students, School of General Studies: David Lelyveld

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Courses counted toward a major may not be doubly counted for a minor.

Interested students should consult with the Education Program faculty in 336 Milbank, and obtain an information packet and application, along with the Admissions Policy. Enrollment for student teaching is limited. Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year and no later than the first Monday in October in the autumn term of the junior year. See Admissions Policy.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification, which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the New York State Teacher Certification Examination as part of the certification process.

Elementary School Program

This program leads to the New York State Provisional Common Branch Certificate (pre-K-6). Students participating in the elementary program must complete 16 credits as follows:

One Psychology course, chosen from among:

Psychology BC 1105 or BC 1107	<i>Psychology of Learning</i>
Psychology BC 1127 or BC 1129	<i>Developmental Psychology</i>
Psychology BC 1130 or BC 1132	<i>Human Memory and Learning</i>
Psychology BC 2134	<i>Educational Psychology</i>

One Foundations course, chosen from among:

Philosophy V 3758	<i>Philosophy of Education</i>
Sociology V 3225	<i>Sociology of Education</i>
Education BC 2032	<i>Contemporary Issues in Education</i>
History BC 3461	<i>Education in American History</i>

A third course from either of the above categories, and the methods course with practicum:

Education BC 2052	<i>Seminar in Methods of Elementary School Teaching</i>
Education BC 2055	<i>School Practicum</i>

During the Spring Term of their junior year, all students entering the elementary education program take Education BC 2052 and corequisite, Education BC 2055. BC 2052 and BC 2055 are prerequisites to elementary student teaching.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete 12 credits from the following course of study:

One Psychology course, chosen from Psychology BC 1105 or BC 1107; BC 1127 or BC 1129; BC 1130 or BC 1132; or BC 2134; and

The methods course with practicum:

Education BC 2062	<i>Seminar in Secondary School Curriculum Development</i>
Education BC 2055	<i>School Practicum</i>

All students entering the secondary education program take this methods course, which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages; and School Practicum, a classroom internship each week. Education BC 2062 and Education BC 2055 are prerequisites to secondary student teaching.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses for four credits each:

Education BC 3063	<i>Teaching in the Elementary or Secondary Schools</i>
Education BC 3064	<i>Seminar in the Teaching-Learning Process</i>

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064 is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn Term, or Education BC 3063y and BC 3064y in the Spring term. No more than two other courses should be taken in addition to student teaching and the seminar, and student with incompletes may not student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g., Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

REQUIREMENTS FOR THE MINOR

The minor requires a minimum of six courses: Education BC 3063, Education BC 3064, a methods course and the practicum course, and two others from those courses cited above but not counted towards the major.

COURSES OF INSTRUCTION

EDU BC 2032x

Contemporary Issues in Education

Study of critical issues confronting education today and the relation to contemporary society. Topics include equity in learning experiences for bilingual, culturally diverse, gifted, and disabled students—girls and boys. The impact of computers, technology, and values teaching on schooling will be addressed. Observations in classroom required. —K. Wilcox
Prerequisite: Permission of the instructor.

4 points. W 2:10-4:00

EDU BC 2052y

Seminar in Methods of Elementary School Teaching

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. —K. Wilcox

This course should be taken in the Spring term of the junior year with corequisite BC 2055.

Prerequisite to student teaching in the elementary grades. Open to Education program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 2055y

School Practicum

A school-based opportunity to investigate educational theory and methodology in practice through involvement in assigned elementary or secondary New York City Public Schools. Supervised classroom experiences interrelate with co-requisite Methods seminars to provide an understanding of teaching and learning processes through participant-observation of 6 hours per week.

—Sec.1 K. Wilcox; Sec. 2 C. Valenza

Corequisite: Sec. 1 elementary BC 2052y or Sec. 2 secondary BC 2062y.

2 points. Hours TBA.

EDU BC 2062y

Seminar in Secondary School Curriculum Development

Theory and practice of developing curricula for secondary school classrooms. Emphasis on the application of pedagogical methods for specific content areas, as well as general strategies for classroom management and meeting the needs of diverse student populations. Includes analysis of teacher-centered to student-centered structures. —C. Valenza

This course should be taken in the Spring term of the junior year with corequisite BC 2055. Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 3063x, y

Teaching in the Elementary or Secondary Schools

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelations between process, content, and values in the educational experience. Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year. —Staff

Prerequisite: Completion of BC 2052 or BC 2062

and BC 2055. Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited.

4 points. Hours to be arranged.

EDU BC 3064x, y

Seminar in the Teaching-Learning Process

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situation. Provides a forum for discussion of the principles and practices of classroom teaching and examines the educational process. Teaching skills are developed through individual supervision, conferences and videotaping. Seminar sessions include discussion of drug, alcohol, and child abuses. —S. Sacks

Prerequisite: Admission to Education Program. Corequisite: BC 3063. Enrollment limited.

4 points. M 2:10-4:00

History HIS BC 3461x

Education in American History

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility. —N. Woloch

Permission of the instructor required.

4 points. Tu 2:10-4:00

Philosophy PHI V 3758y

Philosophy of Education

Drawing on classical and contemporary authors, discussion with focus on the question of the

conditions requisite for producing free and responsible individuals. Selected readings from Plato, Rousseau, Dewey, and others. —R. Myers
3 points. Tu Th 1:10-2:25

Sociology SOC V 3225y
Sociology of Education

Social organization of education in the United

States: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievements; selected innovations in educational practices; and problems in the relations between the school and the community. —K. Neckerman
3 points. M W 1:10-2:25

COOPERATING TEACHER PARTICIPANTS FOR 1993-1994

P.S. 75

Germaine Laviscount-Scott

P.S. 84

Ann Chase
Doris Colomba
Linda Crews
Eleanor Jackson
Myra Lefkowitz
Clarence Loftin
Susan Knaster
Ruth Schroeder
Guy Schwartz
Catherine Teegarden

P.S. 87

Susan Fischer
Vicky Fong-Yee
Jackie Gross
Betty Lerner
Ann Pacifico
Cora Sangree
Karen Siegel
Karen Subek
Robin Ulzheimer

P.S. 125

Beatrice Drew
Tara Molloy

P.S. 165

Millie Morales
Lynn Reiss

P.S. 188

Martha Vasquez

Brown Computer School

Anne Kravet
Mary Metzger
Susan Starks

West Side Community School

Melissa Billings
Hollie Freeman

Martin Luther King H.S.

English:
Nathaniel Guc
Cathy Risch

Mott Hall

Janice Gordon
Mary Reynolds
Social Studies:
Maria Torres
Math:

Mary Ann Garro

Mamaroneck Avenue School

Jeannine Miller

Booker T. Washington J.H.S.

54

English:
Constance Burnett
Science:
Ed Green
Peter Torpie
Social Studies:
Andrea McCourt

Columbus Academy

English:
Kevin McIntosh
Humanities:
Eric Brand
Spanish:
Mindy Blum

Hunter College H.S.

English:
Christopher Zegers

Social Studies:

Eva Abbamonte
Susan Leung Eichler
Irv Kagan

Stuyvesant H.S.

English:
Lydia Schulman
Math:
Rebecca Perlman

Joan of Arc J.H.S. 118

Social Studies:
Martin Espinal
Richard Pashley
English:
Linda Fisch
Najuma Weeks

John F. Kennedy H.S.

English:
Eileen Sokoloff
Sheryl Mitzner
Social Studies:
Mike Muccigrosso
Paula Singer
Anthony Thoman
Chemistry:
Paula Edlavitch
Foreign Language:
Reina Pincus

Westbrook Middle School (NJ)

Italian:
Rita Kostoupolos

Paramus H.S. (NJ)

Italian:
Dan DiGangi

Institute for Urban Education at Barnard

A summer program for highly motivated college students who study in New York City public middle schools and work during July in forest ecology with seventh grade pupils and teachers. Students gain experience with urban education, early adolescents, science curriculum, and inquiry learning.

***IUE BC 2001*
Issues in Urban Education**

Examination of urban middle school structures and the impact of policy on educational purposes and practices. Emphasis on learners and teachers within the school setting, on early adolescent development, on differential, often gender-related, academic and social experiences, and on the teacher. —S. Sacks, K. Wilcox

Prerequisite: admission to Institute, selection as IUE Fellow.
3 points. Tu Th 6:00-8:30; Sat 9:00-12:00, last week of May through June

***IUE BC 2002*
Independent Study: Scientific Inquiry and Curriculum Development**

Focus on the development of site-based scientific activities and the strategies for implementation with early adolescents. Emphasis is on approaches to active learning and scientific inquiry, observation, data gathering, and analysis. Students implement curriculum in home community schools. —S. Sacks, E. MacMullen (Yale)
Prerequisite: IUE BC 2001, selection as IUE Fellow.
3 points. July and throughout Fall term.

Professors: James Basker, Elizabeth Dalton (Chair), Mary Gordon¹ (Millicent C. McIntosh Professor), Maire Jaanus¹, Joann Ryan Morse, Anne Lake Prescott

Associate Professors: Christopher Baswell, William Sharpe

Adjunct Associate Professors: Frank Brady, Patricia Cobey, Thulani Davis, Nahid Rachlin, Elizabeth Swain (Theatre)

Assistant Professors: Lisa Gordis, Jennie Kassanoff, Paula Loscocco², Peter Platt, Cary Plotkin, Michael Staub (Visiting), Timea Szell

Senior Lecturer: Nancy Piore (Director of First-Year English and The Writing Project)

Lecturers: David Baker, Constance Brown, Patricia Denison, Margaret Ellsberg, Syrine Hout, John Pagano, Aaron Schneider, Anita Soloway, Elizabeth Stewart

Associate: Quandra Prettyman

Instructors: Lea Baechler, T. Benis, L. Fitzgerald, Karen Hornick, Gail Korn, Sarah Markgraf, James Runsdorf, Margaret Vandenburg

Assistant: Connie Budelis

¹Absent on leave Autumn term

²Absent on leave 1994-95.

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of texts that enrich our culture.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in the Humanities (Part A) and in Culture and Societies (Part B) by electing appropriate courses listed under Language and Literature.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least 10 courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*); for possible substitutions, see BC 3159, below.
2. In addition, she will complete five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. At least two of these must be in literature before 1900 (ETR BC 3136, 3137, BC 3140x, Sec.1, 2; 3140y, Sec.1, 2; 3141, BC 3154-BC 3180). She may select two of the five from courses BC 3103-BC 3145.
3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). Seniors concentrating in Theatre or Writing will normally substitute the Special Project in Theatre or Writing (BC 3996) for one of the required seminars. Other qualified senior majors may request permission to substitute Independent Study for one of the seminars (see BC 3999, below).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: one from either Chaucer (BC 3154 or BC 3155), Shakespeare (ETR BC 3136, ENG BC 3163, or BC 3164), or Milton (BC 3167); two

additional courses in literature before 1900 (ETR BC 3137, BC 3140x, Sec. 1, 2; 3140y, Sec. 1, 2; BC 3141; and BC 3154-BC 3180; and two electives.

CONCENTRATIONS IN THE MAJOR

American Literature

In addition to ENG BC 3159, 3160 (or appropriate substitutes) and 3193, an American concentration consists of either 3179 or 3180, either 3181 or 3182, one other American literature course, and one senior seminar with a focus on American literature. (The department requires two senior seminars for the major.) Of the remaining electives, one must be in English literature before 1900.

Theatre

Students interested in a Theatre concentration should consult Professor Swain (Room 230 Milbank) or Professor Denison (Room 412 Barnard). A Theatre concentration consists of four courses: three courses, either two History of Theatre (ETR BC 3131-3133) and one Seminar (ETR BC 3134-3137, THR 3140) OR one History of Theatre and two Seminars; a fourth course that is either Special Project in Theatre (ENG BC 3996), or Senior Project: Performance (THR BC 3997), or Thesis Course: History, Dramaturgy, Criticism (THC BC 3998). These four courses will count in place of two electives and one Senior Seminar in the regular English major.

Writing

A writing concentration consists of at least four courses: two writing courses (BC 3105-3113); a third course in writing combined with a Special Project in Writing (BC 3996) or Independent Study (BC 3999); and a fourth course, either a literature course (in English or other language), a creative writing course, or ARS BC 3031. These four courses will count in place of two electives and one Senior Seminar in the regular English major.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y
First-Year English

Close examination of texts and regular assignments in composition, designed to help students read critically and write effectively. Sections of the course are grouped in four clusters: I. American Identities; II. The Creative Imagination; III. Travel and Discovery; IV. Writing Women's Lives. Readings are primarily in literature, but materials from other sources will also be included.

—Director and Staff

Prescribed for all first-year students. May not be taken for P/D/F.

3 points. Consult department bulletin board for section times.

ENG BC 1202x
Studies in Writing

Intensive practice in writing, emphasizing drafts, revision, peer response, and individual conferences. Consideration of the conventions of English style, usage, and grammar through both

informal and formal writing, culminating in expository essays. Recommended for (but not limited to) first-year students and students whose first language is not English.

Permission of the instructor required.

May be taken only for P/D/F.

3 points.

x: Sec. 1 M W 11:00-12:15 —L. Fitzgerald

Sec. 2 Tu Th 10:35-11:50 —A. Soloway

Sec. 3 M W 4:10-5:25 —J. Foy

WRITING

Registration in each course is limited and the written permission of the instructor is required; please file signed departmental registration blanks with Mrs. Budelis (417 Barnard). Two writing courses may not be taken concurrently.

ENG BC 3101x

The Writer's Process: A Seminar in the Teaching of Writing

An exploration of theory and practice in the teaching of writing, designed for students who plan to

become Writing Fellows at Barnard (see page 40). Students will read current theory and consider current research in the writing process, and engage in practical applications in the classroom or in tutoring.—N. Piore

Application process and permission of the instructor.
3 points. Tu Th 1:10-2:25

ENG BC 3103x, 3104y
Essay Writing

English composition above the first-year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Some sections have a special focus, as described. English as a second language (ESL) is offered each term in Section 4 for students who want an upper-level writing course.

3 points.

BC 3103x Sec. 1 Tu 2:10-4:00 —Q. Prettyman

Sec. 2 W 12:00-1:50 —J. Runsdorf

Sec. 3 Th 12:00-1:50 —T. Benis

(ESL) Sec. 4 M 4:10-6:00 —L. Fitzgerald

BC 3104y Sec. 1 Tu 2:10-4:00 —Q. Prettyman

Sec. 2 M 12:00-1:50 *Academic writing, especially for students contemplating law or graduate school.* —A. Prescott

Sec. 3 W 4:10-6:00 *Journalism and popular writing, methods of newswriting and news judgment.* —F. Brady

(ESL) Sec. 4 Tu 4:10-6:00 —L. Fitzgerald

ENG BC 3105x, 3106y
Fiction and Non-Fiction

Short stories and personal narrative.

3 points. x: W 4:10-6:00 —E. Dalton

y: W 2:10-4:00 —T. Szell

ENG BC 3107x, 3108y
Experiments in Writing

Practice in writing short stories and autobiographical narrative, with discussion and close analysis in a workshop setting.

3 points. x: Tu 2:10-4:00 —N. Rachlin

y: Sec. 1 Th 2:10-4:00 —N. Rachlin

Sec. 2 Tu 4:10-6:00 —S. Daitch

ENG BC 3110x
Poetry Writing

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques. —D. Mahon

3 points. M 2:10-4:00

ENG BC 3111x, 3112y
Story Writing

Advanced work in writing, with emphasis on the short story.

Prerequisite: Some experience in the writing of fiction.
Conference hours to be arranged.

3 points.

x: Th 2:10-4:00 —T. Davis

y: Tu 4:10-6:00 —M. Gordon

ENG BC 3113x
Playwriting

A workshop to provoke and investigate dramatic writing. —P. Cobey

3 points. M 12:00-1:50

SPEECH

Registration in each course is limited and permission of the instructor required.

ENG BC 3121y
Uses of Speech

An introduction to effective oral presentation including interviewing and public speaking.

Emphasis on self-presentation, research, organization, and audience analysis. —P. Denison

3 points. Tu Th 2:40-3:55

ENG BC 3124y
Oral Interpretation of Literature

3 points. Not offered in 1994-95.

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 230 Milbank Hall.

ETR BC 3131x
History of Theatre:
The Greeks to the Italian Renaissance

Enrollment limited to 40 students.

3 points. Not offered in 1994-95.

H

ETR BC 3132x
History of Theatre:
Shakespeare to the 19th Century

Study of theatre literature and practice from the Elizabethan period to the 19th century. Focus includes Shakespeare, the English Restoration, and Spanish, French and German drama of the period. —E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

H

ETR BC 3133y
History of Theatre: Modern Period

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavski, Meyerhold, Artaud, Brecht, Grotowski, and Brook, the innovations of Craig, Appia, and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw, and

other playwrights up to modern times. —E. Swain
Enrollment limited to 40 students.
3 points. Tu Th 2:40-3:55 H

ETR BC 3134x
**Seminar on Contemporary
British Political Theatre**

Prerequisite: One semester of theatre history or permission of the instructor.
4 points. Not offered in 1994-95. H

ETR BC 3135y
Seminar on 19th-Century Social Drama

Late 19th-century social drama in the context of earlier melodrama. The shifting relationship between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Mowatt, Taylor, Robertson, Ibsen, Piñero, Wilde, Shaw, and Robins. —P. Denison
4 points. Tu 4:10-6:00 III H

ETR BC 3136y
Seminar on Shakespeare in Performance

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison
Enrollment limited to 20 students.
4 points. Th 4:10-6:00. I H

ETR BC 3137y
**Seminar on Restoration and
18-Century Drama**

Enrollment limited to 20 students.
4 points. Not offered in 1994-95. III H

LANGUAGE AND LITERATURE

ENG BC 3140x
Seminars on Special Themes

Registration may be limited.
3 points.

1. Explorations of Black Literature: 1760-1890

Poetry, prose, fiction, and nonfiction, with special attention to the slave narrative. Includes Wheatley, Douglass, and Jacobs, but emphasis will be on less familiar writers such as Brown, Harper, Walker, Wilson, Forten. Works by some 18th-century precursors will also be considered. —Q. Prettyman
M W 2:40-3:55 I H

2. Jane Austen

Marriage, money, and morals in the world of Austen's novels. Her vision of the individual within society. —A. Soloway
Tu Th 9:10-10:25 III H

3. Transformation, Transgression, and Desire

Narratives of shape-shifting, ambivalent identities, cross-dressing, and gender reversal, in high culture from Ovid to the present. The impact of desire, in various forms, on notions of the self. Texts will include *Metamorphoses*, medieval romance, Shakespeare's *The Winter's Tale*, Spenser's *Faerie Queene*, Balzac's *Sarrazine*, Woolf's *Orlando*, Eliot's *Waste Land*. —C. Baswell
Tu Th 1:10-2:25 I H

4. Writers of the Anglophone Caribbean

Issues of post-colonialism, feminism, revolution, and the family in the contemporary English-speaking West Indies. Authors include Kincaid, Cliff, Naipul, Rhys, Edgell, Collins, Hodge, Lovelace. —J. Kassanoff
Tu Th 2:40-3:55 I H

BC 3140y

**1. Nineteenth-Century American
Women Writers**

In 1855, Nathaniel Hawthorne complained to his publisher that America was "wholly given over to a d--d mob of scribbling women." We will consider the literary productions of some of these women, with special attention to works that consider the status of women and the challenges facing women artists. Authors include Rowson, Fuller, Stoddard, Alcott, Phelps, Dickinson, Stowe, and Freeman. —L. Gordis
M W 11:00-12:15 III H

**2. Slavery and Abolition in English
Literature before 1800**

Examines ways in which English literature addressed the question of African slavery, from the introduction of slaves into the New World in the 1600's to the Abolition bills of 1792 and 1807. Readings include novels, slave narratives, travelogues, essays, stories, and poetry. Authors include Aphra Behn, Daniel Defoe, Samuel Johnson, William Blake, Phillis Wheatley, William Cowper, Olaudah Equiano, Hannah More, John Stedman, Ignatius Sancho, and popular journalists. —J. Basker
M W 1:10-2:25 III H

3. Fable and Fantasy

Selected works by 19th- and 20th-century authors. Lewis Carroll, Ursula LeGuin, C.S. Lewis, and others. Religious and philosophical fable; nonsense and paradox; other worlds. —A. Prescott
M W 2:40-3:55 III H

ENG BC 3141x, 3142y

Major English Texts

A chronological view of the variety of English literature through study of selected writers and their works. Autumn: Chaucer through Dryden. Spring: Swift through Eliot. —M. Ellsberg
Guest lectures by members of the department.
3 points. M W 11:00-12:15 III H

English-Women's Studies EWS BC 3144y Minority Women Writers in the United States

Literature of 20th-century minority women writers in the United States, with emphasis on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
Permission of the instructor required.
3 points. M W 2:40-3:55 I H

ENG BC 3154x

The Early Chaucer

Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules, with emphasis on *Troilus and Criseyde*; related texts by other medieval writers. —C. Baswell
3 points. Tu Th 9:10-10:25 III H

ENG BC 3155y

Chaucer

A study of *The Canterbury Tales* and their "tellers", with special emphasis on the pilgrimage metaphor, structure, genre, gender, and issues of authority in language and fiction. —T. Szell
3 points. Tu Th 4:10-5:25 III H

ENG BC 3158y

Medieval Literature

Readings center on the Arthurian tradition: English roots, French and English developments, psychoanalytic, anthropological, and political approaches. —C. Baswell
3 points. Tu Th 9:10-10:25 I H

ENG BC 3159x-3160y

The English Colloquium

Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.
Required of majors in the junior year. Any student who wishes may substitute 3 courses, ETR BC 3137, 3141, 3163 or 3164 or ETR BC 3136, 3165-3169 and BC

3173-3174. *One of these may also count toward satisfying "before 1900" requirement.*
4 points.

1. Imitation and Creation

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.
—x: J. Morse, y: S. Hout
M 2:10-4:00

2. Skepticism and Affirmation

The development of modern concepts of subjectivity and authority. The rise of art and the artist. Humanism, Rationalism and Empiricism. Ethics and evil. The exploration of limits, and the limitless. —x: P. Platt, y: C. Plotkin
Tu 2:10-4:00

3. Reason and Revelation

Humanism, reformation, and revolution: the possibilities of human knowledge; sources and strategies for secular and spiritual authority; the competing demands of idealism and experience. —M. Ellsberg
Th 2:10-4:00

ENG BC 3163x, 3164y Shakespeare

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare. —P. Platt
3 points. M W 11:00-12:15 III H

ENG BC 3165x

The English Renaissance

Continuities, recoveries, and innovations from Thomas More to Sidney and Spenser; humanism, love poetry, the literature of history and exploration, wit and humor, religious conflict. —A. Prescott
3 points. M W 1:10-2:25 III H

ENG BC 3166x

Seventeenth-Century Prose and Poetry

Traditions and innovations in English literature of the late Renaissance. Readings in love poetry, religious writing, satire and panegyric, the essay, biography and autobiography. Authors from Donne, Jonson, and Wroth to Marvell, Bunyan, and Behn. —D. Baker
3 points. Tu Th 10:35-11:50 III H

ENG BC 3167y

Milton

An exploration of Milton's career from his early poems and later prose to *Paradise Lost* and

beyond. Topics considered include poetic vocation, classical imitation, political controversy, gender and sexuality, and Biblical hermeneutics. —Instructor TBA.

3 points. Tu Th 10:35-11:50 III H

ENG BC 3169y

Renaissance Drama: 1580-1642

Major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, Webster, and Middleton. —P. Platt

3 points. M W 2:40-3:55 III H

ENG BC 3171y

The Culture of the Novel

The Romantic-Realistic novels of Austen, Mary Shelley, the Brontës, Dickens, and Hardy. Other forms of 19th-century novelistic narrativity. The philosophical, religious, amorous, and ethical fictions. —M. Jaanus

3 points. M W 1:10-2:25 I H

ENG BC 3173x

Eighteenth-Century Literature: Satire and Comedy

3 points. Not offered in 1994-95. III H

ENG BC 3174x

The Age of Johnson, 1740-1800

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Burke, Fielding, Sterne, Wollstonecraft, Burns, Blake and other works by women and working class writers. —J. Basker

3 points. Tu Th 10:35-11:50 III H

ENG BC 3176x

English Romanticism

Two generations of Romantic writers in their intellectual context, with reference to contemporary movements in philosophy, music, and the plastic arts. —C. Plotkin

3 points. Tu Th 2:40-3:55 III H

ENG BC 3177y

The Victorian Age in Literature

The origins of modern culture in Victorian England: urbanization, industrialism, evolution, the women's movement, as seen in works by Dickens, Eliot, Ruskin, Newman, Arnold, and others. —A. Soloway

3 points. Tu Th 9:10-10:25 III H

ENG BC 3178x

Victorian Poetry and Criticism

Poetry, art, and aesthetics in an industrial society, with emphasis on the role of women as artists and objects. Poems by Tennyson, Arnold, Christina and

D.G. Rossetti, Swinburne, and Elizabeth and Robert Browning; criticism by Ruskin, Arnold, and Wilde; paintings by the Pre-Raphaelites and Whistler; photographs by J.M. Cameron. —W. Sharpe

3 points. Tu Th 10:35-11:50 III H

ENG BC 3179x

American Literature to 1800

The formation and development of American literary traditions. Writers include: Bradford, Shepard, Cotton, Bradstreet, Taylor, Rowlandson, Edwards, Wheatley, Franklin, Woolman, Brown. —L. Gordis

3 points. M W 1:10-2:25 III H

ENG BC 3180y

American Literature, 1800-1870

The development of a national literature from the late Republican period through the Civil War. Writers include Irving, Emerson, Poe, Fuller, Thoreau, Douglass, Stowe, Jacobs, Whitman, Dickinson. —L. Gordis

3 points. M W 1:10-2:25 III H

ENG BC 3181x

American Literature, 1871-1945

Realism, naturalism, and modernism in American literature. Writers include Twain, James, DuBois, Wharton, Cather, Dreiser, Norris, Fitzgerald, Faulkner, Hurston, Wright. —J. Kassanoff

3 points. Tu Th 10:35-11:50 III H

ENG BC 3182y

American Fiction

American fiction from the 18th century to the early 20th century. Writers include Rowson, Hawthorne, Melville, Alcott, Twain, James, Wharton, Chopin, Faulkner, Hurston, and others. —J. Kassanoff

3 points. Tu Th 10:35-11:50 III H

ENG BC 3185y

Modern British and American Poetry

The poetry of three decades, 1915-25, 1955-65, 1980-90. Poems by Yeats, Eliot, Williams, Millay, Larkin, O'Hara, Rich, Hughes, and others. —W. Sharpe

3 points. Tu Th 10:35-11:50 III H

ENG BC 3186x

Modern Drama

3 points. Not offered in 1994-95. H

ENG BC 3187y

American Writers and Their Foreign Counterparts

Developments in modern fiction as seen in selected 19th- and 20th-century American, European and English works by Flaubert,

Doestoevski, James, Proust, Gide, Woolf, Faulkner, and others. —E. Dalton
3 points. M W 2:40-3:55 I H

ENG BC 3188x
The Modern Novel

Works by Hardy, James, Conrad, Lawrence, Joyce, and others. —J. Morse
3 points. M W 11:00-12:15 III H

ENG BC 3189x
Postmodern Literature
3 points. Not offered in 1994-95. H

ENG BC 3191x, y
The English Conference

Various topics presented by visiting scholars in courses that will meet for three or four weeks during each semester. Topics, instructors, and times will be announced by the department.

—Visiting faculty
To be taken only for P/D/F.
1 point.

ENG BC 3193x, y
Critical Writing

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Required of all majors before the end of the junior year. Sophomores are encouraged to take it in the Spring Term even before officially declaring their major. Transfer students should plan to take BC 3193 in the Autumn Term. —Staff

Registration in each section is limited.
4 points.

- x: Sec. 1 M 4:10-6:00
Sec. 2 Tu 2:10-4:00
Sec. 3 W 4:10-6:00
Sec. 4 Th 2:10-4:00
Sec. 5 Th 4:10-6:00
y: Sec. 1 M 2:10-4:00
Sec. 2 Tu 2:10-4:00
Sec. 3 Tu 4:10-6:00
Sec. 4 W 4:10-6:00
Sec. 5 Th 2:10-4:00

ENG BC 3194x
Critical and Theoretical Perspectives on Literature

1. A History of Criticism
3 points. Not offered in 1994-95. H

2. Literary Theory
3 points. Not offered in 1994-95. H

3. Psychoanalytic Approaches to Literature
3 points. Not offered in 1994-95. H

4. Post-modern Texts and Theory
3 points. Not offered in 1994-95. H

ENG BC 3996x, y
Special Project in Theatre or Writing

Senior majors who are concentrating in Theatre or Writing and have completed two courses in writing or three in theatre will normally take the Special Project in Theatre or Writing (3996x,y) in combination with an additional course in their special field. This counts in place of one of the Senior Seminars. In certain cases, Independent Study (BC 3999) may be substituted for the Special Project.

Permission of the instructor and of the department chair are required.
1 point.

ENG BC 3997x, 3998y
Senior Seminars: Studies in Literature

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, discussion, oral reports, and at least one significant research paper. Written permission of the instructor required.

Enrollment limited to seniors. 4 points.

ENG BC 3997x

1. The Middle Ages: Images of Women

The cultural and literary construction of women, virtuous and wicked, saintly and whorish, in the chivalric and religious narrative of the High Middle Ages, in the light of a variety of contemporary critical approaches. —T. Szell
W 4:10-6:00

2. Wit and Humor in the Renaissance

Focusing on England, but with some classical and continental texts, this course looks at jest-books, fiction, comedy, verse satire, parody, and wordplay. Some attention to wit as self-polishing and cultural commentary. Authors include More, Shakespeare, Donne, Nash, Rabelais, Marguerite de Navarre, Cicero, Lucian. —A. Prescott
Tu 2:10-4:00

3. Epic and Romance

Epic and romance, from the classical period to the 20th century, and study of their competition and mutual influence. Readings from *Beowulf*, *The Aeneid*, medieval romances, Spenser, Milton, English Romantic poets, the novel, science fiction. —C. Baswell
Th 4:10-6:00

4. The Eighteenth-Century Novel

Origins and development of the British novel. Topics include: historical and cultural influences, technical innovation and experimentation, the picaresque, the novel of sensibility, gothicism, recent theories of the development of the novel. Readings in Defoe, Richardson, Fielding, Sterne, Goldsmith, Mackenzie, Radcliffe, Horace Walpole, Austen. —A. Schneider
Tu 4:10-6:00

5. Colonial Encounters with Native Americans

Consideration of texts describing encounters between British colonists and Native Americans. We will be particularly concerned with the ways that these encounters are interpreted, and with colonials writers' attempts to reconcile their religious piety with their experience as colonists. Authors include Roger Williams, Mary Rowlandson, Wahunsonacock, John Eliot, and John Mason. —L. Gordis
Th 4:00-6:00

6. Victorian and Modern Drama

Drama in transition. Changing social structures and dramatic structures at the turn of the century. The relationship between convention and invention in the plays of George Bernard Shaw, Oscar Wilde, Arthur Piñero, Elizabeth Robins, Cicely Hamilton, and others. —P. Denison
Tu 2:10-4:00

7. Ulysses and Its Background

A study of Joyce's comic epic and its sources: Homer, Shakespeare, Swift. —J. Morse
W 2:10-4:00

ENG BC 3998y Studies in Literature

1. Women in the English Renaissance

Feminist, historical, and literary inquiry into the representation of women and gender in writings 1500-1680. Topics include humanist education, Protestant marriage, Petrarchan and neoplatonic literature, female monarchy, the *querrelle des femmes*. Major figures include Elizabeth I, Pembroke, Cary, Wroth, Lanier, Philips, Newcastle, Behn, Makin, and Astell. —Instructor TBA.
Tu 2:10-4:00

2. Race and Gender in the Age of Johnson

Issues of race and gender in the works of Samuel Johnson and other English writers of the period 1740-1800, including Laurence Sterne, Elizabeth Carter, Charlotte Lennox, Phillis Wheatley, William Blake, Olaudah

Equiano, Frances Burney, Ignatius Sancho, John Stedman, Hannah More, Mary Wollstonecraft, and others. —J. Basker
Tu 4:10-6:00

3. Body and Language

An examination of major discourses on corporeality and the body's cultural significance. —M. Jaanus
Tu 2:10-4:00

4. Disintegrations

The coming-apart of structures of coherence—poetic language, the family, narrative sequence, ego or selfhood, gender, civilization, truth—from mid-Victorian England to the 20th century. —C. Plotkin
W 4:10-6:00

5. Victorian to Modern:

Suburbia and Its Culture

An examination of suburban life and art in Britain and the U.S. since 1840. Topics include the sequestration of women, the Garden City Movement, "white flight," and the strategic role played by television and film. Works by Dickens, Collins, Howard, Fitzgerald, Betjeman, Cheever, Friedan, Naylor, and others. —W. Sharpe
Th 4:10-6:00

6. The Family in Twentieth-Century American Fiction

A literary and theoretical examination of the changing historical, psycho-social and narrative dynamics of the American family in the 20th century. Authors will include Wharton, Hopkins, Faulkner, Nabokov, Welty, Erdrich, Leavitt, and Barthelme. —J. Kassanoff
W 2:10-4:00

7. Modern

Modernism and the modern sensibility in poetry and prose: Baudelaire, Yeats, Eliot, Stevens; Lawrence, Joyce, Woolf, Colette, Faulkner, Beckett. —E. Dalton
M 2:10-4:00

ENG BC 3999x, y Independent Study

Senior majors who wish to substitute Independent Study for one of the two required Senior Seminars should consult the department chair. Permission is given only to students who present a clear and well-defined topic of study, who have a department sponsor, and who submit their proposals well in advance of the semester in which they will register.

Permission of the instructor and of the department chair are required.
4 points.

HUM V 3003x-V 3004y
Masterpieces of Modern Western Humanities

New visions of self, society, and God. Passion, anxiety, and faith. The reconstruction of moral, aesthetic, and cultural values. First-semester texts include: Wordsworth, Hegel, Whitman, Balzac, Dickens, Kierkegaard, Dostoevsky,

Dickinson, Flaubert, Ibsen, Nietzsche. Second-semester texts include: Freud, Proust, Breton, Duras, Lispector, Colette, Camus, Didion, Baudrillard, Lawrence, Márquez. —x: R. Gustafson; y: M. Jaanus; *Not offered in Spring 1995.*
(Note: Does not count toward English major.)
Prerequisite: Grade of B or better in HUM C 1001-1002 or permission of the instructor.
3 points. M W 1:10-2:25 III H

Associate Professor: Stephanie Pfirman (Chair)

Senior Lecturer: Peter Bower

Lecturer: Eric Katz

Laboratory Associates: Joseph Liddicoat, Lila Hicks

Adjunct Professors: Cynthia Rosenzweig, Martin Stute

Environmental Science provides a scientific basis for management of earth systems. It focuses on the interaction between human activities, resources and the environment. As human population grows and technology advances, pressures on earth's natural systems are becoming increasingly intense and complex. Environmental Science is an exciting field, where science is used to best serve society.

The curriculum recognizes the need for well-trained scientists to cope with balancing human requirements and environmental conservation. Majors acquire an understanding of earth systems by taking courses in the natural sciences, as well as courses investigating environmental stress. Students learn to critically evaluate the diverse information necessary for sound environmental analysis. Courses foster an interdisciplinary approach to environmental problem-solving.

Students are encouraged to participate in internships and field programs leading to preparation of their senior thesis. Opportunities are available for research projects with staff at one of the many research institutions in the New York area. Advanced students may also work as Teaching Assistants in introductory courses.

REQUIREMENTS FOR THE MAJOR

- I. Environmental Science BC 1001, BC 1002. *Advanced courses in Environmental Science* or another related science may be substituted for this requirement with permission of the chair.
- II. At least one course in Chemistry and five other courses in the natural sciences (Biology, Chemistry, Geology or Physics). At least two of these must include labs.
- III. Four courses to be selected from the following:

ENV BC 3015	<i>Chemical Cycles in the Environment</i>
ENV BC 3016	<i>Environmental Measurements</i>
ENV BC 3017	<i>Environmental Data Analysis</i>
ENV BC 3019	<i>Energy Resources</i>
ENV BC 3024	<i>Oceanography</i>
ENV BC 3025	<i>Hydrology</i>
ENV BC 3030	<i>The Atmosphere: Meteorology and Air Pollution</i>
ENV BC 3031	<i>Climate: Present, Past and Future</i>
ENV BC 3032	<i>Global Land Use and Habitability</i>
ENV BC 3033	<i>Waste Management</i>
ENV BC 3035	<i>Environmental Hazards and Disasters</i>
ENV BC 3040	<i>Environmental Law, Policy and Decision-Making</i>
ECO BC 3039	<i>Natural Resource and Environmental Economics</i>

Graduating seniors are required to submit a thesis. This should be done in conjunction with the Environmental Science Senior Seminar 3800. Environmental Research BC 3997/3998 may be used for extended research investigations.

Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

REQUIREMENTS FOR THE MINOR

Five courses are required: Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

COURSES OF INSTRUCTION

For a complete, updated list of courses see the department at the beginning of the semester.

ENV BC 1002x y**Environmental Science I, II**

Global and local capacities to satisfy human demands of land, water, energy, minerals, and waste disposal. Fall semester: physical processes of the atmosphere, pedosphere and lithosphere, and their vulnerabilities in human activities. Basic principles of ecology, the structure and function of ecosystem energy flow and nutrient cycling, rocks and minerals, weathering and erosion, solid waste and New York City, incineration, landfills, and recycling. Required laboratory sections involve sediment grain size analysis, owl pellet dissection, vole skeleton assembly, and compass pacing. Spring semester: ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification. Environmental disturbances by agricultural and urban-industrial processes; remedial measures and plans for a future sustainable ecology are considered. —P. Bower

Prerequisites: Passing grade on Quantitative Reasoning test or equivalent. Enrollment limited. Students must sign up for lab sections in 331 Milbank during the program planning period of the previous term. Laboratory fee: \$30. 4.5 points. Lecture: M W 11:00-12:15

Laboratory: One session of 3 hours per week TBA.

ENV BC 3015y**Chemical Cycles in the Environment**

The carbon cycle, with emphasis on how human activities perturb natural cycles.—W. Broecker

Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor. Alternate years.

3 points. Offered in 1995-96.

ENV BC 3016x**Environmental Measurements**

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods. —R. Anderson

Prerequisites: Chemistry BC 1601, or equivalent and permission of the instructor. Enrollment limited to 16 students.

4 points. Lecture: Th 1:00-3:00

Laboratory: F 9:00-1:00

ENV BC 3017y**Environmental Data Analysis**

Analysis and interpretation of real-time and historical environmental data. Multidisciplinary approaches to environmental problem-solving. Acquisition and processing of environmental information, assessment of spatial and temporal variability, use of computers for analysis and display. —S. Pfirman, C. Rosenzweig

Prerequisites: One year college science or permission of the instructor. Alternate years.

3 points. Hours TBA.

ENV BC 3019x**Energy Resources**

Evaluates energy sources, present and future demand, and national and international resources. Assesses environmental impacts and evaluates economic and policy implications of energy production and use. —S. Pfirman

Prerequisites: One year college science or permission of the instructor. Alternate years.

3 points. Offered in 1995-96.

ENV BC 3024x**Oceanography**

Bathymetry, water mass structure, general ocean circulation. Waves, tides, structure and function of coastal seas, general ocean circulation, deltas, estuaries, wetlands, beaches, marine sediments. Local and international concerns about ocean pollution. Chemical and biological oceanography, nutrients. Influences of sea level change and storms on coastal zone management. —S. Pfirman

Prerequisites: One year college science or permission of the instructor. Alternate years.

3 points. M W 1:10-2:25

ENV BC 3025y**Hydrology**

Structure and properties of water and the hydrologic cycle with emphasis on groundwater. Also included: atmospheric waters, lakes, rivers, glaciers. Availability and demand for freshwater resources. Environmental problems associated with the contamination of drinking water. —M. Stute

Prerequisites: One year college science or permission of the instructor. Alternate years.

3 points. M W 4:10-5:25

ENV BC 3030x

The Atmosphere: Meteorology and Air Pollution

Introduction to atmospheric science. Provides an understanding of basic processes controlling the structure and dynamics of the atmosphere, general atmospheric circulation, and weather. Present sources, transport and effects of air pollution on regional and local scales. —A. DelGenio

Prerequisite: one year college science or permission of the instructor.

3 points. Offered in 1995-96.

ENV BC 3031y

Climate: Present, Past and Future

Earth's climate and how it has changed. Climate records from glacier and sediment cores, tree rings, stalagmites. World distribution of climate types, global average temperature, and glacial-interglacial cycles. Potential impact of global warming on earth systems. Changing temperature, greenhouse gases, aerosols, sea level change and rise, sunspots, rainfall, and their impact on food production, natural water and ecosystems. —S. Pfirman

Prerequisite: one year college science or permission of the instructor.

3 points. Offered in 1995-96.

ENV BC 3032x

Global Land Use and Habitability

Humans have transformed their terrestrial environment since paleolithic times. Focus is on physical processes involved in human-environment interactions, and explores contributory societal aspects. Guidelines for sustainable development are defined using present and past examples of environment and abuse. —C. Rosenzweig

3 points. Offered in 1995-96.

ENV BC 3033x

Waste Management

Liquid and solid waste management. Cradle-to-grave analysis of product and waste streams. Municipal solid waste, landfills, incineration and recycling, hazardous waste, sewage and sewage treatment. Increase in waste generated by growing populations, international equity in generation and disposal of waste, public health, and environmental risks of different disposal methods. Restrictions on disposal options, rising disposal costs. —P. Bower

Alternate years.

3 points. Offered in 1995-96.

ENV BC 3035x

Environmental Hazards and Disasters

Prediction and avoidance of catastrophic events that originate in natural and technologic systems. Response strategies to minimize damage before, during and after events such as floods, hurricanes, nuclear breakdowns. Environmental impact of war. —P. Bower

Alternate years.

3 points. M W 2:40-3:55

Environmental Science-Philosophy

ESP BC 3025y

Ethics and Environment

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law. —E. Katz

Limited to 25 students.

3 points. Th 2:40-5:10

H

ENV BC 3040x

Environmental Law, Policy and Decision-making

Local to international environmental laws and development of environmental policy. Risk management, land-use planning and the role of industry, academia and government in environmental decision-making, economic analysis and policy making, the interplay of common and public law, environmental and toxic torts, and corporate law and contracts and property. Criminal law in environmental cases, environmental rights, wetlands, the Storm King controversy, endangered species and the Spotted Owl, air and water pollution.

—P. Bower

Alternate years.

3 points. Offered in 1995-96.

ENV BC 3800y

Environmental Science Senior Seminar

Guided, independent, in-depth research culminating in the senior essay. Weekly seminar to review work in progress and share results through oral and written reports. Discussions of current events and career opportunities with presentations by students and guest speakers. —S. Pfirman

Senior majors and juniors with permission of the instructor.

4 points. Th 4:10-6:00

Note: this course will replace ENV BC 3997x and 3998y for the majority of majors writing their senior theses.

ENV BC 3997x, 3998y Environmental Research

Research under the supervision of a faculty member for the purpose of preparing the senior thesis. —Staff

Variable points with a maximum total of 4. Hours TBA.

ENV BC 3999x, ENV BC 3999y Problems and Projects in Environmental Science

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty. —Staff

Permission of the chair required.

Variable points to a maximum of 6. Hours TBA.

GEY V 3002y The Design and Maintenance of a Habitable Planet

Origin and evolution of planet earth provides the basis for a discussion of factors necessary for planet to spawn life and eventually a complex civilization. The present pollution problems of planet earth provide a focus for consideration of the extent to which the inhabitants of a planet can impact its environment. Special topics and the solutions to problem sets are discussed in the one-hour recitation. —P. Froelich

Limited to 25 students.

3 points. Lecture Tu Th 2:45-3:45

Recitation: Tu or Th 4:00-5:00

GEY W 3327y Principles of Geomorphology

Origin and evolution of landforms by chemical and physical processes operating at or near the earth's surface. —M. Anders

3 points. Tu Th 1:00-2:15

The following courses offered by the Geological Sciences Department of Columbia are of special interest to students of Environmental Science. Students should consult the Barnard environmental

science department and check the Columbia Bulletin for more information on these and additional advanced-level courses.

GEY V 1001y, V 1401y Dinosaurs and the History of Life

—P. Olsen

3-4 points.

GEY V 1011x, 1012y, V 1411x, 1412y Introduction to Earth Sciences, I and II

—K. Hunkins, C. Langmuir, J. Hays

3-4 points.

GEY S 1021x Physical Geology

—P. Bower

5 points.

GEY S 1022y Historical Geology

—P. Bower

5 points.

GEY V 1053y Planet Earth

—Instructor TBA.

3 points.

GEY V 3002y The Design and Maintenance of a Habitable Planet

—P. Froelich

3 points.

GEY V 3003y The Earth's Climate

—A.L. Gordon

3 points.

GEY W 3010x, y Field Geology

—Staff

1-3 points.

This program is supervised by the First-Year Seminar Committee:

Professor of Russian: Marina Ledkovsky

Professor of Political Science: Dennis Dalton

Professor of History: Rosalind N. Rosenberg

Assistant Professor of Economics: Cecilia Conrad

Associate Professor of English: James Basker (Director)

Instruction in the First-Year Seminar Program is provided by the following regular members of the Barnard College Faculty:

Professors: James Basker (English), Alan Gabbey (Philosophy), Serge Gavronsky (French), Morton Klass (Anthropology), Alfred Mac Adam (Spanish), Joseph Malone (Linguistics), Rosalind N. Rosenberg (History), Marcia L. Welles (Spanish)

Adjunct Professor: Theresa Rogers (Sociology)

Assistant Professors: Antonella Ansani (Italian), Peter Connor (French), Cecilia Conrad (Economics), Kate Cooper (Religion), Celia Deutsch (Religion), Ellen Graff (Dance), Umamaheswaran Kalpagam (Economics), Rachel McDermott (Asian & Middle Eastern Cultures), Sheila McTighe (Art History), Catharine Nepomnyashchy (Russian), Dirk Obbink (Classics), Peter Platt (English), Lesley Sharp (Anthropology), Herbert Sloan (History), Timea Szell (English), Lars Trägårdh (History), John Vitkus (Psychology)

Senior Associate: Marvin Shulman (German)

Lecturers and Other Faculty: Vilma Bornemann Caraley (Spanish), Dorothy Denburg (Dean of the College), Margaret Ellsberg (English), John Pagano (English), Sanya Popović (Political Science), Quandra Prettyman (English)

Purpose and Structure

Every Barnard first-year student is required to take a First-Year Seminar during her first or second semester at Barnard. The purposes of the First-Year Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through a close examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, First-Year Seminars should provide entering Barnard students with an early sense of community.

Accordingly, all First-Year Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods and earn 3 points.
- Each will have its enrollment limited to 20 or fewer students.
- Reading assignments will consist of a maximum of six book-length assignments or their equivalent (about 2,000 pages).
- Writing assignments will consist of a minimum of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.

- The regular grading practices of the College will be followed. Upon completion of the course, students will have an opportunity to evaluate their First-Year Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The First-Year Seminar Program consists of thirty seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting First-Year Seminars are described in the First-Year Registration materials.)

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of ancient and modern literature.

FSM BC 1116y **Women and the Fantastic in Literature**

An examination of the fantastic in literature specifically as the topic relates to women's experience. Emphasis on the use of the fantastic to explore concepts of identity and human relationships, with special attention to sources in oral tradition and the creation and exploitation of myth and legend. Readings include:

Bruno Bettelheim, *The Uses of Enchantment*
 Brothers Grimm, selected fairy tales
 Mary Shelley, *Frankenstein*
 Freud, *The Uncanny*
 Toni Morrison, *Beloved*
 Maxine Hong Kingston, *The Woman Warrior*
 Stories by Tatiana Tolstaya, Selma Lagerlof,
 American Indian women, Zora Neale Hurston,
 and E.T.A. Hoffman.

—C. Nepomnyashchy, Russian Department
 Spring M W 1:10-2:25

FSM BC 1126x **Pictorial Narrative: 15th to 17th Century**

A reading of selected texts from the Bible and from Ovid's *Metamorphoses* and an examination of paintings and sculpture that interpret those texts. The class will look at how Renaissance images were made to function as though they were written stories. Discussion of the nature of literary narrative as well as the properties of visual images in

this time period. —S. McTighe, Art History Dept.
 Autumn M W 1:10-2:25

FSM BC 1133y **The Teratological Text: Representations of the Other as Monster**

An examination of modern writers who have portrayed the human subject as monstrous, subhuman, demented and fragmented. Emphasis will be placed on the issues of identity and difference, alterity and alienation. Readings include:

Shelley, *Frankenstein*
 Mann, *Death in Venice*
 Sir Gawain and the Green Knight
 Sade, *Dialogue between a Priest and a Dying Man*
 Hoffmann, *The Sandman*
 Poe, selected tales
 Wells, *The Island of Doctor Moreau*
 Crane, *The Monster*
 Lispector, *The Passion According to G. H.*
 Kafka, *The Metamorphosis*

—P. Connor, French Department
 Spring M W 4:10-5:25

FSM BC 1137y **The Summons to Adventure**

Encounter with the marvelous and otherworldly as a call to adventure. The individual's quest for spiritual fulfillment, for recognition of and relationship to the agencies that shape human destiny. Transformations of romance and its reemergence in modern fantasy. Readings include *The Bacchae*, *Sir Gawain & the Green Knight*, *Hamlet*, romantic poetry, *Frankenstein*, *Alice in Wonderland*, *Their Eyes Were Watching God*, *The Woman Warrior*, Tolkien, Le Guin, Garcia Marquez. Paintings by Turner, Friedrich, Dore. —J. Pagano, English Department
 Spring Tu Th 4:10-5:25

FSM BC 1142y

The Avant-Garde in Prose and Poetry

An examination of the principal traits of the avant-garde, and of the place it accords to reality, language, rhetoric, syntax and to transcultural influences. Students will write brief papers on the texts, prepare oral presentations and write pastiches as well as their own works in the light of the avant-garde. Readings include: Kafka, *Short Stories*, Woolf, *To the Lighthouse*, Céline, *Journey to the End of the Night*, N. Sarraute, *Fools Say*, and poetry by M. Tsetayeva, G. Stein, M. Loy, and J. Mansour. —S. Gavronsky, French Department
Spring Tu Th 10:35-11:50

FSM BC1143x

Moral Conflicts in Literature

Focuses on texts that deal directly with moral dilemmas, concentrating on conflicting moral codes and the role of language in their articulation and evaluation. Readings include: Sophocles, *Antigone*, Euripides, *The Bacchae*, *The Life of Lazarillo de Tormes*, Tirso de Molina, *The Trickster of Seville*, Toni Morrison, *Sula*, Dorothy Allison, *Bastard Out of Carolina*. —M. Welles, Spanish Department
Autumn Tu Th 6:10-7:25

FSM BC 1144x

Race in the Early Modern Imagination

Focusing on representative English texts, this seminar examines how literature began to reflect ideas about "other" races, particularly Africans, and to develop moral and imaginative responses to historic issues such as slavery, imperialism, abolition, and repatriation, from the time of Shakespeare to the first British abolition bills of 1792 and 1807. Texts include Shakespeare, *The Tempest*, Aphra Behn, *Orenoko*, Defoe, *Robinson Crusoe*, Johnson, *Life of Drake and Other Writings*, and the poetry of Phillis Wheatley, William Blake, Hannah Moore, and William Cooper, and the *Life of Olaudah Equiano*, among others. —J. Basker, English Department
Autumn Tu Th 2:40-3:55

FSM BC1145y

Modes of the Marvelous

An examination of some of the theory and practice of the wonderful, the marvelous, the sublime, and the uncanny from Longinus to contemporary novels. We will try to determine what draws authors to ideas and fictions that challenge the normal, the rational, the everyday. Emphasis on both the content and form of these marvelous explorations. Readings include: Longinus, "On the Sublime" (selections), Montaigne "Of a Monstrous Child," "Of Cripples," Shakespeare's *The Winter's*

Tale, Burke, *A Philosophical Enquiry into the Origin of Our Ideas of the Sublime and the Beautiful* (selections), Shelley, *Frankenstein*, James, "The Beast in the Jungle," "The Jolly Corner," Woolf, Mrs. Dalloway, Wideman, *Sent for You Yesterday*, Erdrich, *Love Medicine*. —P. Platt, English Department
Spring Tu Th 9:10-10:25

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1216x

Revolution: Locke to Luxembourg

Close reading of revolutionary and counter-revolutionary texts from the 17th through the 20th centuries. Examines revolutions as debates among competing points of view, with emphasis on the ways in which the language of revolution is challenged and transformed in the course of those debates. Readings include:

Thucydides, *The Peloponnesian War* (selections)

Locke, *Two Treatises on Government*

Paine, *Common Sense and The Rights of Man*

Burke, *Reflections on Revolution in France*

Wollstonecraft, *Vindication of the Rights of Woman*

Lenin, *What Is to Be Done?*

Luxembourg, "Leninism or Marxism?"

Kollantai, "Women and the Revolution."

—H. Sloan, History Department

Autumn M W 2:40-3:55

FSM BC 1224x

Rites of Passage

An examination of the ways in which world literature represents ritualized transitions like coming of age and first love. Readings include:

The Ramayana

Homer, *The Odyssey*

Homeric Hymns to Demeter and Aphrodite

Apuleius, *The Golden Ass*

James Joyce, *Portrait of the Artist as a Young Man*

Jamaica Kincaid, *Annie John*

Alice Walker, *In Search of Our Mothers' Gardens*

Excerpts from Arnold van Gennep, *The Rites of*

Passage, Victor Turner, *The Ritual Process*, and

Mary Douglas, *Purity and Danger*

—D. Obbink, Classics Department

Autumn Tu Th 1:10-2:25

FSM BC 1228y

Ethnicity and Social Transformation

An examination of how Americans have imagined

social hierarchies and ethnic identities, from the WASP-dominated society of the 1800's to the strong emergence of other ethnic groups in the 20th century. Authors include: Edith Wharton, F. Scott Fitzgerald, James Baldwin, E. L. Doctorow, Bernard Malamud, Toni Morrison, Amy Tan, Louise Erdrich. —M. Ellsberg, English Department
Spring M W 1:10-2:25

FSM BC 1233x
Gender and Justice

An examination of theories of moral rightness and their relationship to ideas about masculinity and femininity from ancient to modern times. Readings include: Plato, *The Republic*, Aeschylus, *The Oresteia*, Rousseau, *The Social Contract*, Hunt, *The Many Bodies of Marie Antoinette*, Mill, *Essays on Sex Equality*, McLauren, *Celia: A Slave*, Marx, *The Communist Manifesto*, Kollantai, *The Social Basis of the Woman Question*. —R. Rosenberg, History Department
Autumn M W 2:40-3:55

FSM BC 1237x
Rhetoric and Gender

Explores the ways men and women represent masculinity and femininity, and the uses to which such representations can be put. We will pay attention to the development of rhetorical technique from antiquity, as well as to historical and contemporary American variations. Readings will include: Demosthenes, Plato, Cicero, Quintillian, Plutarch, Héloise and Abelard, Shakespeare, Gibbon, Wollstonecraft, King, *The New York Times*. —K. Cooper, Department of Religion
Autumn M W 2:40-3:55

FSM BC 1239x
Principle and Pragmatism

An examination through time—in literary works, philosophic thought, and contemporary life—of the factors that influence individual choices when pragmatic interests conflict with moral principles or cultural values. Readings include:

Sophocles, *Antigone*
Shakespeare, *King Lear*
Pedro Calderon de la Barca, *Life Is a Dream*
André Gide, *The Immoralist*
Henry James, "The Liar"
Toni Morrison, *Sula*
Manuel Puig, *The Kiss of the Spider Woman*
Mary Gordon, *Final Payments*

Supplementary readings will include selections from *The Bible*, Plato, Aristotle, Niccolò Machiavelli, Miguel de Cervantes, Jeremy Bentham, Immanuel Kant, William James, John Dewey, and Sissela Bok. —V. Bornemann Caraley, Spanish Department
Autumn Tu Th 10:35-11:50

FSM BC 1240x
Utopia Imagined

In an imperfect world, visions of Utopia have since antiquity served to focus the longing for an ideal social order. Examines seminal texts which have molded our imagination of Utopia, as well as our sense of the limits and dangers of the utopian impulse. Among other themes, we will consider how the ideal of harmony is reconciled with the need for authority, the urge for individual freedom, and the issue of gender difference. Readings and films include: Plato's *Republic*, More's *Utopia*, Rousseau's *The Social Contract*, Thoreau's *Walden*, Marx's *The Communist Manifesto*, Samuel Butler's *Erewhon*, Hayek's *The Road to Serfdom*, George Orwell's 1984, "Metropolis," "Triumph of the Will," and "Berkeley in the 60's." —L. Trägårdh, History Department
Autumn M W 11:00-12:15

**III. WOMEN IN LITERATURE
AND CULTURE**

An investigation into the ways in which women's experience has been imagined in literature and constructed in culture. Emphasis will be on female destiny and desire; rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship. Each seminar will draw approximately one-third of its readings from the following core list of writings:

Homer, *The Odyssey*
Sophocles, *Antigone*
Homeric Hymn to Demeter
Kalidasa, *Sakuntala*
William Shakespeare, *As You Like It*
Leo Tolstoy, *Anna Karenina*
Virginia Woolf, *A Room of One's Own*
Alice Walker, *The Color Purple*
Lyric Poetry by Sappho, early Buddhist nuns,
Anna Akhmatova, Sylvia Plath, Adrienne Rich, Audre Lorde
Selected essays by Nancy Chodorow, Carol Gilligan, Sherry Ortner

FSM BC 1309x
Women in Literature and Culture

Special texts:

Jeanette Winterson, *The Passion*
Zora Neale Hurston, *Their Eyes Were Watching God*
Chaucer, "Wife of Bath's Tale"
Maxine Hong Kingston, *The Woman Warrior*

FIRST-YEAR SEMINAR

Toni Morrison, *Beloved*
selections from Christine de Pizan
and Marie de France
Anna Deavere Smith, *Fires in the Mirror*
—T. Szell, English Department
Autumn Tu Th 4:10-5:25

FSM BC 1313y **Women in Literature and Culture**

Special texts:

The Bible
Toni Morrison, *Beloved*
Maxine Hong Kingston, *The Woman Warrior*
Leslie Silko, *Ceremonies*
Anzia Yezierska, *Bread Givers*
Anaya, *Bless Me, Ultima*
—C. Deutsch, Religion Department
Spring M W 2:40-3:55

FSM BC 1315y **Women in Literature and Culture**

Special texts:

Jamaica Kincaid, *Annie John*
Anzia Yezierska, *Bread Givers*
Amy Tan, *The Joy Luck Club*
Toni Morrison, *Beloved*
—D. Denburg, Dean of the College
Spring Tu Th 4:10-5:25

FSM BC 1319x **Women in Literature and Culture**

Special texts:

Maxine Hong Kingston, *The Woman Warrior*
Anzia Yezierska, *Bread Givers*
and selections from writings by Elizabeth
Stewart Phelps, Charlotte Perkins Gilman,
Tillie Olsen, and Hisaye Yamamoto.
—Q. Prettyman
Autumn M W 11:00-12:15

IV. ASPECTS OF THE MODERN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1401y **The Modern Idea of Freedom**

An examination of texts, from the 17th to the 20th centuries, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses.

Readings include:

Pedro Calderon de la Barca, *Life Is a Dream*

Jonathan Swift, *Travels into Several Remote Regions of the World* (*Gulliver's Travels*)
Jorge Luis Borges, *Tlong, Uqbar, Orbis Tertius*
Thomas Pynchon, *The Crying of Lot 49*
—A. MacAdam, Spanish Department
Spring M W 1:10-2:25

FSM BC 1408x **The Person in Literature and Life**

This seminar examines different authors' conceptions of the internal and social forces that shape an individual's unique personality. Discussions will focus on the adaptiveness of particular personalities within the context of their social environments.

Readings include:

Shakespeare, *Coriolanus*
Mary Shelley, *Frankenstein*
Oscar Wilde, *The Picture of Dorian Gray*
Alice Walker, *The Color Purple*
Amy Tan, *The Joy Luck Club*
Barbara Kingsolver, *The Bean Trees*
Anthony Burgess, *A Clockwork Orange*
Tennessee Williams, *A Streetcar Named Desire*
—J. Vitkus, Psychology Department
Autumn Tu Th 2:40-3:55

FSM BC 1412y **Illness and Society**

Analysis of the experience of illness and of the social and ethical values surrounding it. Eastern and Western literature is read for an understanding of the responses to illness by the patient, family and friends, and physicians. Class discussion will extend to the role of self-help efforts, of nutritional, herbal, and holistic approaches to care. Texts include:

Gilman, *The Yellow Wallpaper*
Tolstoy, *The Death of Ivan Ilyich*
Mann, *The Magic Mountain*
Camus, *The Plague*
The Book of Job
Rong, *At Middle Age*
Logan, *Motherwit: Alabama Midwife's Story*
Kesey, *One Flew Over the Cuckoo's Nest*
—Theresa Rogers, Sociology Department
Spring M W 2:40-3:55

FSM BC 1420x **Aggression, Oppression, Competition, or Cooperation: How Do Societies Evolve?**

An exploration into theories of social progress. We will contrast the theory of natural selection as an explanation for political and social dominance and economic success with its alternatives. Readings include: Charles Darwin, *On the Origin of Species* by *Natural Selection*, W.E.B. DuBois, *The Philadelphia Negro*, Margaret Mead, *The Coming of Age in Samoa*, Franz Fanon, *The Wretched of the Earth*,

and selections from Stephen Jay Gould, Charlotte Perkins Gilman, Richard Hofstadter, Thomas Henry Huxley, Sojourner Truth, Booker T. Washington, and Malcolm X.

—C. Conrad, Economics Department

Autumn M W 1:10-2:25

FSM BC 1425x

The Politics of Identity

An examination of the quest by individuals and groups to (re)gain their ethnic, racial and religious identities with a focus on methods of empowerment, group affirmation, and the potentially destructive consequences of such assertion of identity. Cases to be examined: Civil Rights/Black Power in the U.S.; Gandhi's non-violence vs. continuing ethnic violence in India; The Palestinian/Israeli conflict in the Middle East; the role of women in separatist/terrorist movements.

Readings include:

Gandhi, *Non-Violence in Peace and War*
Bhagwat Charan, "The Philosophy of the Bomb"
Toni Morrison, *The Bluest Eye*
The Autobiography of Leila Khaled
Adolf Hitler, *Mein Kampf*
Malcolm X Speaks

Eileen MacDonald, *Shoot the Women First*

Eric Hobsbawm, *Nations and Nationalism*

Benedict Anderson, *Imagined Communities*

—S. Popović, Political Science Department

Autumn M W 11:00-12:15.

FSM BC 1426y

Portraits of the Artist

An investigation of the relationship of the artist and society as it reflects the intellectual climate of the modern age. Supplementary readings will include the work of Luigi Pirandello, James Joyce, and Hermann Hesse.

—M. Shulman, German Department

Spring M W 2:40-3:55

FSM BC 1429x

Body Politics: Race, Class and Gender in Western Performance

An examination of the ways in which race, class, and gender have been represented in Western performance. Drawing critical methodologies from art history as well as literary and feminist criticism, the seminar seeks to understand how cultural constructions of sexuality and ethnicity are inscribed on the body of literature, theatre, dance, and everyday life. How does the presence of the live(d) body construct (and deconstruct) these images in performance? Readings and viewings include:

John Berger, *Ways of Seeing*

Sophocles, *Oedipus Rex*

Martha Graham, *Night Journey*

Shakespeare, *Othello*

Jose Limon, *The Moor's Pavane*

Rameau, *The Dancing Master*

Taglioni, *La Sylphide*

Kate Chopin, *The Awakening*

Clifford Odets, *Waiting for Lefty*

Ntozake Shange, *For Colored Girls Who Have Considered Suicide When the*

Rainbow Is Enuf

Anna Deveare Smith, *Fires in the Mirror*

—E. Graff, Dance Department

Autumn M W 1:10-2:25

FSM BC 1430y

Technology and Society

An examination of the significance of technology in different societies from an anthropological perspective. Topics addressed will range from reproduction and fertility; to the industrialization of labor to virtual reality, robotics, and cyborgs. How does technology expand—or inhibit—the boundaries that define "human"? How might such variables as gender, ethnicity, social class, and age affect experiences with technological change? What ethical issues are raised by the implementation of new technologies in our own and other societies? Texts include: Margaret Atwood, *The Handmaid's Tale*, Samuel Beckett, *Endgame*, Jane Dibblin, *The Day of Two Suns: U.S. Nuclear Testing and the Pacific Islanders*, Don DeLillo, *White Noise*, William Gibson, *Neuromancer*, Lincoln Keiser, *Friend by Day, Enemy by Night: Organized Vengeance in a Kohistani Community*. —L. Sharp, Anthropology Department

Spring M W 1:10-2:25

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1518x

Communication and Pseudo-communication through Language

Communicational successes and failures across groups of humans. Literature by and about the oppressed, the disinherited, the marginalized. Critical analysis of language abuses innocently or maliciously apt to foment prejudice, paranoia, or at the very least misunderstanding. Readings include portions of:

Louise Erdrich, *Love Medicine*

S.I. & A. R. Hayakawa, *Language in Thought and Action*

Oscar Hijuelos, *The Fourteen Sisters of Emilio Montez O'Brien*

Joseph Malone, *The Science of Linguistics in the Art of Translation*

Kate Millet, *The Loony-Bin Trip*

Toni Morrison, *The Bluest Eye*

Bharati Mukherjee, *The Tiger's Daughter*

Bernard Shaw, *Saint Joan*

R.A. Sasaki, *The Loom and Other Stories*

Deborah Tanner, *You Just Don't Understand*

—J. Malone, Linguistics Department

Autumn Tu Th 1:10-2:25

FSM BC 1519x

Perceptions of the Alien

An exploration of how the "other" — those not like "us" — are perceived: for example, foreigners, "ethnics," the other gender. The class will discuss portrayals of such aliens in fiction, in scholarly literature, and in other accounts. Readings include:

Shakespeare, *Othello*, *The Merchant of Venice*

Forster, *A Passage to India*

Anita Desai, *Baumgartner's Bombay*

Henrik Ibsen, *A Doll House*

Selections from Margaret Mead, James Baldwin,

Nora Ephron, Laura Bohannon, Morton Klass, and others.

—M. Klass, Anthropology Department

Autumn M W 2:40-3:55

FSM BC 1525y

Books with a View: Italy in the Western Imagination

For centuries Italy and its culture have intrigued and fascinated foreign travelers and artists. In this course we will explore texts written by authors of different nationalities who have chosen Italy as the scene for their creative quest and the setting of cross-cultural encounters. Readings from:

E.M. Forster, *A Room with a View*

Hella Haasse, *The Scarlet City*

Nathaniel Hawthorne, "Rappaccini's Daughter"

Henry James, *Daisy Miller*

Thomas Mann, *Death in Venice*

"Mario and the Magician"

Susan Sontag, *The Volcano Lover*

Stendhal, *The Charterhouse of Parma*

Edith Wharton, "Roman Fever"

—A. Ansani, Italian Department

Spring M W 9:10-10:25

FSM BC 1528y

Immigrant Experiences

Contemporary debates on multiculturalism and cultural diversity have brought to focus the problems

of "diasporic" people, of migration and alienation, of identity and difference, the intermingling of cultures, the significance of boundaries and borderlands, and the nature of liberal democracies. An exploration, through fiction (Asian-American and Latino) and texts of non-fiction, of the experiences of different immigrant groups in the United States and the complexities in the construction of hyphenated identities. Readings include: selections from Talal Asad, James Clifford, deTocqueville, John Dewey, Renato Rosaldo, Arthur Schlesinger, Catharine Stimpson, and Charles Taylor. Fiction by Julia Alvarez, Sandra Cisneros, Cristina Garcia, Gish Jen, Maxine Hong Kingston, Paule Marshall, Bharti Mukherjee, and Amy Tan.

—U. Kalpagam, Economics Department

Spring Tu Th 2:40-3:55

FSM BC 1529y

Extra-terrestrial Intelligence

Suppose we encountered beings from another world. How alien might they be? Would they look like us? Think like us? Would their science resemble ours? What about their religions, philosophies, political or social structures? And what if they were immeasurably smarter than we are? Texts and films include: Lucretius, *On the Nature of Things*, Nicholas of Cusa, *Of Learned Ignorance*, Giordano Bruno, *On the Infinite Universe and Worlds*, Kepler, *The Dream*, John Wilkins, *Discovery of the World in the Moone*, Francis Godwin, *The Man in the Moone or a Discourse of a Voyage Hither*, Christiaan Huygens, *Cosmotheoros*, Fontenelle, *Conversations on the Plurality of Worlds*, Kant, *Universal Natural History and the Theory of the Heavens*, William Whewell, *Of the Plurality of Worlds*, Carl Sagan, *The Cosmic Connection*, "War of the Worlds," "Close Encounters of the Third Kind," and a "Star Trek" episode. —A. Gabbey, Philosophy Department

Spring Tu Th 2:40-3:55

FSM BC 1530y

Women and Religion

An examination of several religious traditions with attention to the various historical, theological, and ideological roles women have played. The course seeks to provide information about a number of major religious traditions, from the perspective of women, and an enhanced understanding of the relationship between religion, culture and gender issues. Readings include: Carmody, *Women and World Religions*; Womanspirit Rising: A Feminist Reader in Religion; Jacobson, Doranne, and Wadley, *Women in India: Two Perspectives*; Kingston, *The Woman Warrior*; Murcott, *The First Buddhist Women: Translations and Commentary on the Therigatha*;

Plaskow, Judith and Carol Christ, *Weaving the
Visions: New Patterns in Feminist Spirituality*.
—R. McDermott, Asian & Middle Eastern
Cultures Department
Spring M W 11:00-12:15

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology: Abraham Rosman

Professor of French: Serge Gavronsky

Assistant Professor of History: Deborah Valenze

deBary Associate Professor in Asian & Middle Eastern Cultures: Irene Bloom

Assistant Professor of Russian: Catherine Nepomnyashchy

Professor of German: Gertrud M. Sakrawa

The purpose of Foreign Area Studies is to provide an introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area studies is open to qualified students whose applications are approved by the committee in charge. First-year students and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Asian and Middle Eastern Cultures (*Adviser:* Irene Bloom) See page 79.

European Studies (*Adviser:* Deborah Valenze)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

- A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).
- B. 10 courses focusing on a country or region to include:
 - Two courses in European History;
 - Two courses in the literature or cultural studies of one country in the original language;
 - Two semester senior projects under the direction of the program adviser or an adviser in the minor field;

Four courses outside the field of concentration dealing with the selected country or region.

The following list is only a sample selection of courses that may be applied to the major.

Anthropology V 10105y	Multiculturalism: Ways of Looking at Other Cultures
Anthropology V 3028	Cultural Contact: Archeological Ethnohistorical Approaches
Anthropology V 3100	Anthropology of Urban Life
Anthropology V 3038	Ethnicity and Race
Art History V 3475	Art and Culture of the Northern Renaissance
Art History BC 3521	Seventeenth-Century Painting and Public Life in the Lowlands, 1580-1700
Economics BC 3030	Comparative Economic Systems
Economics BC 3041	Theoretical Foundation of Political Economy
History BC 1011/1012	Introduction to European History (recommended as prerequisites for other history courses)
History BC 3005	Nationalism in 20th-Century Europe
History BC 3039	The Civilizing Process
History BC 3410	The City in Europe
History BC 3433	European Welfare State and the Family, 1919-1980
Political Science BC 3007	Modern Political Movements
Political Science BC 3013/3014	Political Theory
Political Science V 3505	Introduction to Comparative Politics
Religion V 1101	Introduction to the Study of Western Religion
Religion V 3501	18th-and 19th-Century Religious Thought
Sociology V 3100	Introduction to Social Theory
French courses in Culture and Literature.	See French, page 160
German courses in Culture and Literature.	See German, page 168
Italian courses in Culture and Literature.	See Italian, page 181
Spanish courses in Culture and Literature.	See Spanish, page 250

French Studies (Adviser: Serge Gavronsky)

German Studies (Adviser: Gertrud Sakrawa)

Latin American Studies (Adviser: Licia Fiol-Matta)

See Department of Spanish and Latin American Cultures, page 250.

Russian Regional Studies (Adviser: Catharine Nepomnyashchy)

The major consists of four years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar and eight courses distributed in the following subjects:

- Two courses in Russian or Soviet literature (in translation or in Russian);
- Two courses in Russian history;
- One course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or in Russian, etc.);
- One course in Soviet politics; and
- Two semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

Professors: Serge Gavronsky (Chair), Renée Geen

Visiting Associate Professor: Kandioura Dramé

Assistant Professors: Catharine Randall Coats¹, Peter T. Connor

Lecturer: Anne Boyman

Associate: Isabelle Jouanneau-Fertig

Instructors: Vandana Gupta, Anne Protopappas, Rosie S. Reiss., Isabelle Étienne

¹Absent on leave Autumn term

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination with a score of 4 or 5; CEEB examinations with a score of 750) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chair.

Students who have satisfied the language requirement may immediately enroll in literature and culture courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French and English with lectures, discussions, and papers in English (BC 3046, BC 3047, BC 3048, BC 3049); and advanced language courses BC 3007-3019.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad page 42.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte*.

Students enrolled in the Senior Essay will take the written part of the Major Examination. The defense of the essay constitutes the oral section of the Major Examination.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

There are three majors available to prospective students in the department:

Language and Literature: This program emphasizes language, culture, and literature of the country.

Translation and Literature: This program perfects students' abilities to translate from French into English and English into French, together with a knowledge of French culture and literature.

French Studies: This program emphasizes the socioeconomic, political and historical aspects of language studies as well as the cultural and literary aspects of France and Francophone countries.

In consultation with the adviser of her choice, the student majoring in French may select one of the following options:

Language and Literature

- 10 courses are required for the major:
 - FRE BC 3021, BC 3022 or BC 3023, BC 3024
 - Two language courses chosen from FRE BC 3013-3019
 - Two literature courses chosen from BC 3031-3036 and three courses chosen from 3037-3043
 - One-term seminar numbered BC 3052, a Senior Essay, or a sixth literature course

Translation and Literature

- 10 courses are required for the major:
 - FRE BC 3021, BC 3022, or BC 3023, BC 3024
 - Three language courses chosen from FRE BC 3014-3017
 - Four one-term literature courses chosen from the following: BC 3031-BC 3043
 - One-term seminar numbered BC 3053 or a Senior Essay in Translation

French Studies

- 11 courses are required for the major:
 - FRE BC 3021, BC 3022 or BC 3023, BC 3024
 - Two language courses chosen from FRE BC 3007-BC 3017
 - Five one-term Advanced Literature and Culture courses numbered FRE BC 3031-3049
 - Two one-term courses in Humanities or Social Sciences selected in consultation with the major adviser

The student is expected to declare her option by the end of the junior year. Programs may include additional courses in French literature, culture, and language, or in other subjects which vary with the interest of the student. Certain courses in the French and Romance Philology Department at Columbia University may be substituted with the approval of the chair.

A student who elects French as part of a combined double, or interdisciplinary major will establish her individualized program with the departments concerned.

REQUIREMENTS FOR THE MINOR

- Seven courses are required for a minor:
 - FRE BC 3021, BC 3022, or BC 3023, and BC 3024
 - Two language courses chosen from: FRE BC 3007-BC 3017
 - Three literature and culture courses chosen from: FRE BC 3031-BC 3049

COURSES OF INSTRUCTION

LANGUAGE COURSES

For satisfactory completion of the language requirement, student with a C- or below average will have to repeat the course.

FRE BC 1001x, 1002y
Elementary Full-Year Course

Basic elements of French grammar. Oral, writing and reading skills. —Staff
4 points. Students may take either or both of these courses at Columbia.
x, y: Sec.1 M Tu W Th F 9:00 x: V. Gupta, y: R. Reiss

Sec 2 M Tu W Th F 10:00 x,y: A. Protopappas
Sec 3 M Tu W Th F 12:00 x: V. Gupta, y: R. Reiss

FRE BC 1102x
Review of Elementary French

Oral and written review of basic grammar and syntax. Reading in modern literature and Francophone literature, free composition, translation. One hour of oral drill is required. —Staff
Course chair: I. Jouanneau-Fertig.
Primarily for students who need further instruction to qualify for the intermediate course. Credit cannot be granted for both BC 1102 and BC 1002 (or its equivalent). Enrollment limited to 20 students per section.
3 points.

FRENCH

Sec. 1. M W 11:00-12:15 —I. Jouanneau-Fertig

Sec. 2 M W F 12:00-12:50 —A. Protopappas

Sec. 3. Tu Th 10:35-11:50 —R. Reiss

FRE BC 1201x

Intermediate Conversation

A one-point course intended to improve students' oral proficiency through individual presentations, group projects and exercises in vocabulary building. *Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.* 1 point. Not offered in 1994-95.

FRE BC 1202y

Writing Workshop

A one-point course intended to improve students' writing skills through creative and analytic short papers based on literary and topical assignments. *Prerequisite: Satisfaction of Elementary French. This course does not satisfy the language requirement.* 1 point. Not offered in 1994-95.

FRE BC 1203x, y

Intermediate Course I

Further development of oral and written communication skills. Literary analysis, expository compositions and *explication de texte*. Readings from modern French and Francophone literatures. —Staff
Course chair: P. Connor
Prerequisites: BC 1001x, BC 1002y, BC 1102x, C 1101-C1102, or an appropriate score on the placement test. 3 points.

x: Sec. 1 M W F 10:00 —I. Étienne

Sec. 2 Tu Th 9:10-10:25 —R. Reiss

Sec. 3 Tu Th 10:35-11:50 —V. Gupta

Sec. 4 Tu Th 1:10-2:25 —R. Reiss

y: Sec. 1 M W F 9:00 —P. Connor

Sec. 2 M W F 11:00 —A. Protopappas

Sec. 3 Tu Th 9:10-10:25 —C. Coats

Sec. 4 Tu Th 1:10-2:25 —V. Gupta

FRE BC 1204x,y

Intermediate Course II:

French through Literary Analysis

More advanced work in language skills. Emphasis on literary analysis and *explication de texte*. Readings taken from the Renaissance to the modern period. —Staff
Course Chair: A. Boyman

Prerequisite: BC 1203 or an appropriate score on the placement test.

3 points.

x: Sec. 1 M W 1:10-2:25 —I. Jouanneau-Fertig

Sec. 2 M W 2:40-3:55 —I. Jouanneau-Fertig

Sec. 3 Tu Th 10:35-11:50 —A. Boyman

y: Sec. 1 M W 11:00-12:15 —I. Jouanneau-Fertig

Sec. 2 M W 1:10-2:25 —I. Jouanneau-Fertig

Sec. 3 Tu Th 10:35-11:50 —V. Gupta

Sec. 4 Tu Th 1:10-2:25 —C. Coats

FRE BC1306x, y

Composition and Conversation

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development. 3 points. Not offered in 1994-95.

FRE BC 3007y

Commercial-Economic French

The socioeconomic language of contemporary French society. Practice of oral and written communications based on documents from the French press. Students who have completed this course may wish to take the Certificate given by the Chambre de Commerce et d'Industrie de Paris.

—I. Jouanneau-Fertig

3 points. M W 2:40-3:55

FRE BC 3013x

Advanced Composition and Grammar Review

Systematic study of morphology, syntax, and idiomatic expressions. Weekly writing assignments. —A. Protopappas
3 points. M W 11:00-12:15

FRE BC 3014x

Advanced Translation: Literary Texts

Translation of various styles of prose and poetry from French to English. 3 points. Not offered in 1994-95.

FRE BC 3015x

Advanced Translation into French

Specific techniques of translation will be studied and applied to various texts (prose, poetry, theatre) and contexts (advertisements, cartoons, song lyrics, subtitles) in order to increase awareness of linguistic resources and expressive possibilities. *Prerequisite: Satisfaction of the language requirement or the equivalent.* 3 points. Not offered in 1994-95.

FRE BC 3016y

Advanced Conversation

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, dramatic readings and oral *explication de texte*. *Prerequisite: Satisfaction of the language requirement or the equivalent.*

3 points. Not offered in 1994-95.

FRE BC 3017y**Advanced Translation: Non-literary Texts**

Translation of various non-literary styles of prose taken from historical, critical, and journalistic sources. —A. Boyman

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Tu Th 10:35-11:50

FRE BC 3019y**Advanced Phonetics**

A detailed study of the major rules of French pronunciation; theoretical linguistic concepts will be followed up with intensive oral drills.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1994-95.

LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047, BC 3048 and BC 3049 are conducted in English.

FRE BC 3020x**Special Themes in Modern French Culture and Literature:****8. Surrealism in Painting and Film**

Surrealism from its initial critique of the *status quo* to its recuperation in fashion photography and advertisement. Topics include the politics of sexuality and eroticism; the nature of the pictorial and filmic image and the rhetoric of narration. —S. Gavronsky

Prerequisite: Satisfaction of the language requirement in French. Enrollment is limited to 30 students.

3 points. Not offered in 1994-95.

FRE BC 3021x, 3022y**Masterpieces of Literature from the Middle Ages to the 20th Century**

A chronological view of French literature through analyses of significant works and currents from the Middle Ages to the 20th century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature.

Spring Term: The Age of Enlightenment, Romanticism, Realism, and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022. —R. Geen

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W 11:00-12:15

H

FRE BC 3021y**Masterpieces of Literature from the Middle Ages to the 20th Century I**

Equivalent of Course BC 3021x but given in the Spring term.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1994-95.

FRE BC 3022x**Masterpieces of Literature from the Middle Ages to the 20th Century II**

Equivalent of BC 3022y but given in the Autumn term.

3 points. Not offered in 1994-95.

H

FRE BC 3023x**The Culture and Institutions of France**

An historical analysis of *mentalités* from the Middle Ages through the reign of Louis XIV through symbol, structure and self-presentation.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1994-95.

H

FRE BC 3024x**The Culture and Institutions of France**

The major cultural and institutional foundations of France from the Age of Enlightenment through the student revolts in 1968. Topics include: the *Encyclopédistes*, The French Revolution, the rise of socialism, *l'Affaire Dreyfus*, decolonization, and May 1968. Readings from historical, philosophical, political, and literary sources including works by Sade, Rousseau, Saint-Simon, Zola, Sartre, Memmi, the Situationist International, Baudrillard. —P. Connor

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. M W 1:10-2:25

H

FRE BC 3031x**The Middle Ages**

Development and evolution of literary expression in France from the Crusades through the High Middle Ages.

Prerequisite: Satisfaction of the language requirement or the equivalent.

3 points. Not offered in 1994-95.

H

FRE BC 3032y**Humanism and Reformation in 16th-Century France**

Examination of the major literary, philosophical, and theological currents of the 16th century, stressing the development of the concept of selfhood in its secular, religious, and gender-based

concepts. Texts read in pairs, one from the period of Humanism, and the other from the Reformation in order to highlight both the shifts in focus and the intersections. Authors include Rabelais, Montaigne, Ronsard, d'Aubigné, Calvin, de Navarre. —C. Coats

Prerequisite: BC 3021, BC 3022, BC3023, BC 3024, or the equivalent.

3 points. Tu Th 10:35-11:50 III H

FRE BC 3033y

Renaissance, Baroque and Classical Poetry

Playing with poetry: a consideration of Renaissance poetry as a corpus to be deciphered. Topics also include baroque allegories, and classical *préciosité*.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points. Not offered in 1994-95. III H

FRE BC 3034x

French Classical Literature and Culture

Focus on the literature and culture of the 17th century.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. Not offered in 1994-95. III H

FRE BC 3035y

Eighteenth-Century French Fiction

Courses and discourses of the heroine in selected 18th-century novels. The rise of the harlot, the tribulations of the orphan, the fall of the noblewoman, and the revenge of the betrayed.

Readings include: Prévost, *Manon Lescaut*; Marivaux: *La Vie de Marianne*; Diderot; *La Religieuse*; and Laclos: *Les Liaisons Dangereuses*. Transpositions of the 18th-century heroine in operas and films. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. M W 1:10-2:25 H

FRE BC 3036x

The Age of Enlightenment

The challenge of traditional ideas on government, religion, ethics, and aesthetics in 18th-century France.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. Not offered in 1994-95. H

FRE BC 3037x

Nineteenth-Century French Poetry

Poems by Lamartine, Hugo, Baudelaire, Rimbaud, and Mallarmé. —A. Boyman

Prerequisite: BC 3021, BC 3022, BC 3023,

BC 3024, or the equivalent.

3 points. Tu Th 1:10-2:25 H

FRE BC 3038y

The Nineteenth-Century French Novel

Evolution of the novel, aesthetics of Romanticism, Realism, Naturalism, and Symbolism. Particular attention paid to the formal problems of narrative, the rhetoric of sentiment, *décadence*, issues of sexual identity. Authors include Constant, Balzac, Sand, Baudelaire, Flaubert, Zola, and Rachilde.

—P. Connor

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. M W 2:40-3:55 H

FRE BC 3039x

Twentieth-Century French Theater

Tradition and innovation in major French dramatists including Giradoux, Anouilh, Claudel, Ionesco, Genet, and Beckett. —R. Geen

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. M W 1:10-2:25 H

FRE BC 3040x

Twentieth-Century French Fiction

Topics will include the theory of the gratuitous act, literature and the rise of Fascism, war and the literature of commitment, erotic violence. —P. Connor

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points. Not offered in 1994-95.

FRE BC 3041x

Twentieth-Century French Thought

Identity as defined by the "other" and oneself. The first half of the semester shall focus on the rise of anti-semitism from the 1880's to Le Pen; the second half shall focus on self-identity in the writings of men and women from North Africa

(Maghrebins). Authors include Drumont, Céline, Drieu, Sartre, Fanon, Boudjedra, Djébar, Jaloun, and Boukhedenna. —S. Gavronsky

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the equivalent.

3 points. Tu Th 10:35-11:50 H

FRE BC 3042x

Twentieth-Century French Poetry

A close reading of some of the major long poems of the century with particular attention paid to themes, the figure of the author/narrator, definitions of an epic poetics as well as relation to past epic texts both classical and contemporary.

—S. Gavronsky

Prerequisite: FRE BC 3021, 3022, 3023, 3024, or

permission of the instructor.

3 points. Not offered in 1994-95.

H

FRE BC 3043y

Twentieth-Century French Women Writers

Writings by women will be analyzed in the changing philosophical and literary contexts of the 20th century. Authors include Simone de Beauvoir, Natalie Sarraute, Marguerite Duras, Hélène Cixous, and others. —A. Boyman

Prerequisite: BC 3021, BC 3022, BC 3023,

BC 3024, or the equivalent.

3 points. Tu Th 1:10-2:25

H

FRE BC 3045y

The Short Story in France

Short prose fiction (contes, nouvelles, récits, textes) will be read in a literary as well as historical context, and studied as ground for experimentation in the meaning of fiction. —R. Green

Prerequisite: BC 3021, BC 3022, BC 3023,

BC 3024, or permission of the instructor.

3 points. Not offered in 1994-95.

H

FRE BC 3046y

Political-Economic Aspects of Contemporary France

Major politico-institutional and socio-economic crises and debates in France from the postwar to the present. —A. Protopappas

Prerequisite: Satisfaction of language requirement and one advanced French course or the equivalent.

3 points. Not offered in 1994-95.

FRE BC 3047y

Topics in French and Francophone Cultures

6. Censorship and Literature in France from the Ancien Régime to World War II

Course taught in English with readings in English and French; papers in English.

Prerequisites: Satisfaction of language requirement and one advanced French course or permission of the instructor.

3 points. Not offered in 1994-95.

H

7. Négritude

Taught in English with readings in English and French; papers in English.

Prerequisite: Satisfaction of French language requirement or permission of the instructor.

3 points. Not offered in 1994-95.

II H

8. Africa in Cinema

Representations of African culture by filmmakers from various cultural backgrounds. Social and ideological positions and the demands of exoticism. The constructions of the African as "other" and the responses they have elicited from

Africa's cineastes. A selection of French, British, American, and African films by J. Houston, S. Pollack, J.-J. Arnaud, M. Radford, D.D. Mambety, J.-P. Beckolo, N. Mweze, S. Cissé, G. Kaboré, and A. Seck. —K. Dramé

Taught in English with readings in English and French; papers in English. Prerequisite:

Satisfaction of French language requirement or permission of the instructor.

3 points. Tu 7:00-9:00 Screenings

W 4:10-6:00 Discussion

II H

FRE 3048x

Topics in Theory and Literary Criticism

Critical Theory

An introduction to post-structuralism focusing on the question of the subject and its interpretations and transformations. —A. Boyman

Course taught in English with readings in English and French; papers in English.

Prerequisite: Satisfaction of the language requirement in French or permission of the instructor.

3 points. Not offered in 1994-95.

FRE BC 3049x

France on Film

Films on and of the period from the 1930's to the present focusing on the interplay between history, ideology and culture. Topics include the syndicalist movement, Resistance and anti-semitism, anti-Americanism, the presence of the foreigner, and the status of the intellectual. Readings include works by contemporary historians, sociologists, feminist critics as well as film historians and film theoreticians. Film makers include Clair, Carné, Chabrol, Ophüls, Melville, Blier, Renais, Sembene, Pontecorvo, and Kaplan. —S. Gavronsky

Course taught in English with readings in English and French; papers in English.

Prerequisite: BC 3021, BC 3022, BC 3023,

BC 3024, or the equivalent.

3 points. Tu 7:00-9:00 Screenings

W 4:10-6:00 Discussions

II H

SEMINARS

FRE BC 3052x

Seminar in Literature

Written permission of the instructor is required.

4 points. Not offered in 1994-95.

FRE BC 3053y

Seminar in Translation

Focus is on the interplay between theory and practice. Emphasis shall be placed on the translation of Francophone texts from the Caribbean and French-speaking Africa. —S. Gavronsky.

FRENCH

Written permission of the instructor is required.
4 points. Tu 4:10-6:00

SENIOR ESSAYS

The Senior Essay may be taken in lieu of the senior seminar only by seniors with an A- average in the department. Written permission of sponsor is required. Normally a one-semester course.

FRE BC 3057x, 3058y

Senior Essay: Literature or French Studies

Research into French or Francophone literatures and cultures. Literature majors will write their essays in French; French Studies majors may write in English.

FRE BC 3059x, 3060y

Senior Essay: Translation

Presentation and translation into English of a French text of significant length and literary or cultural value.

STUDY IN PARIS

Reid Hall Programs

412 Lewisohn Hall. 854-2559

Reid Hall, at 4, Rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change. Students may study at Reid Hall for one term (autumn, spring, or summer) or for an entire academic year. Students in the autumn programs may stay on for the spring. Participation in the Reid Hall Programs (except during the summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: March 1

1. *The Intensive French Language and Civilization Program*. Open to students with two years of college-level French or the equivalent.
2. *The French Studies in the Humanities and Social Sciences Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation. Students may take up to two of their

courses in the French University system.

3. *The Art History Program*. Open to students in good standing who have completed two years of college French or the equivalent, and one introductory art history course with grades of B or better.
4. *The Supervised Research Program*. Open to students with three years of college-level French or the equivalent with grades of A- or better. Students may take up to three courses in the French University system and, in addition, must complete a *mémoire*, a research paper of publishable quality of at least 30 pages in length.

SPRING PROGRAMS

Application Deadline: October 1

1. *The Intensive French Language and Civilization Program*.
2. *The French Studies in the Humanities and Social Sciences Program*.
3. *The Supervised Research Program*.

ACADEMIC-YEAR PROGRAMS

Application Deadline: March 1

1. Students in the above-mentioned autumn programs may stay on for the spring. A variety of program options are available and are included in the descriptions of the autumn programs.
2. *The Academic-Year Program*. Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and write a thesis.

Courses Offered at Reid Hall in Paris

French H 3003x, y **Phonetics**

—D. Manesse, D. Barret
3 points.

French H3334x, y **Introduction to Literary Study:** **From the 18th Century to the Present**

—S. Hinglais, L. Vernière, L. Gaborit
Credit is not granted for both BC 3022 and H 3334 (or C3334 or F 3334).
3 points.

French H 3405x, y **Third-year Grammar and Composition, I**

—M-M. Charlier
3 points.

French H 3406x, y **Third-year Grammar and Composition, II**

—C. Valéro
3 points.

French H 3131x, y
Third-year Conversation I. Aural/Oral Skills:
Phonetics and Oral Expression
 —M-M. Charlier, C. Valéro
 3 points.

French H3431x, y
Fourth-year Grammar and Composition, I
 —M. Hamon, M. LeCaodic
 3 points.

French H 3432x, y
Fourth-year Grammar and Composition, II
 —D. van de Velde
Prerequisite: French H3431 or its equivalent.
 3 points.

French H 3625x, y
Literary Analyses of French Culture
 Ideology and politics in the literary texts of the 20th century. The issues of exclusion and participation in terms of contemporary French cultural identity. French society's relationship to its literary heritage and to the French language. —L. Vernière
 3 points.

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and to persons without current academic affiliation. All courses are offered for academic credit. The program offers grammar and composition, conversation, phonetics and literature. Reid Hall assists students in locating housing, including dormitory facilities in the Cité Universitaire. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February of each year. Write or call the Reid Hall Programs office, 412 Lewisohn Hall, Columbia University, New York, N.Y. 10027, (212) 854-2559.

French H 3991x-H 3992y
Supervised Study in the
French University System

Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.
 2 to 15 points each term.

French H 3997x-H 3998y
Supervised Research in France
 2 to 6 points each term.

FILM STUDIES

Film H 3031y
Introduction to French Cinema in an
International Context: 1954 to the Present
 —M. Cerisuelo
 3 points.

The following courses are also offered at Reid Hall. For complete descriptions, see the appropriate departmental section of this bulletin or the Reid Hall Programs Bulletin available at 412 Lewisohn Hall.

Art History H 3320y. *Medieval Art and Architecture.*

Art History H 3430x, y. *Renaissance and 17th-Century Art and Architecture.*

Art History H 3604x, y. *Seminar on Contemporary French Art.*

Comparative Literature H 3250x-H 3251y. *Aesthetics I and II.*

History H 2503x, y. *Introduction to French Civilization and Culture.*

History H 3460x. *Intellectual and Social History of Paris.*

Philosophy H 3550x, y. *Aspects of Contemporary French Thought.*

History-Political Science H 3240x, y. *The State and Political Life in France from the Revolution to the Present.*

History-Political Science H 3260y. *The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.*

Political Science H 3210y. *France and Africa: Post-colonial Relations (in French).*

Women's Studies H 3450y. *Contemporary French Thought and Feminist Theory (Seminar).*

Women's Studies H 3550y. *Women and Society in France: History of Women From the 16th to the 20th Century.*

Professor: Gertrud M. Sakrawa (Chair)

Assistant Professor: Sigrid Berka¹, Erk Grimm

Lecturer: Regina Ayre

Senior Associate: Marvin Shulman

¹Absent on leave 1994-95.

For organizational purposes faculty teaching German language and literature courses will be included in the Department of German, Italian and Linguistics.

Courses in German are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

Three levels of language instruction are offered with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German BC 1001-BC 1002, includes a series of videocassettes that the students will view at the rate of one a week to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German BC 1203 and BC 1204, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. BC 3005x, 3006y *Advanced German* provides opportunity for intensive practice in speaking and writing German. These courses may be taken in reverse sequence. They are recommended as complementary companion courses to lecture/reading oriented courses. BC 3007, 3008 *Business-Economic German I and II* offers two levels of practice in understanding and usage of specialized terminology.

Satisfactory completion of or exemption from BC 1204 is required for enrollment in any of the advanced courses; the sequences in which these should be taken will be determined in consultation with the department.

The following programs are available to prospective students in the German department:

The Major in German Language and Literature:

The courses comprising this program are all taught in German with the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

Requirements: 10 courses

GER BC 3005x and/or 3006y *Advanced German*
(3 pts each)

GER BC 3011 *Introduction to German Literature and Civilization*
GER BC 3061 *Seminar*

Five one-term advanced literature courses chosen from GER BC 3014-3048

A third advanced language course may be substituted for one advanced literature course.

GER BC 3062x or y *Senior Essay*

A one-half hour oral exit examination is required.

The Major in German Studies:

This major combines a study of literature with other aspects of German culture and civilization by choosing courses from the social sciences such as history, political science and economics, and from other humanities dealing with the German-speaking regions of Europe.

The department will assist and advise those students who are interested in opportunities to study in Germany or Austria.

Requirements: 14 courses

Two or three of the following language courses or their equivalent:

GER BC 3005-3008

Four or five one-term Advanced Literature and Culture courses numbered:

GER BC 3011-3048

One GER BC 3062x or y *Senior Essay**

Six one-term courses in the Social Sciences and Humanities that relate to the German-speaking countries of Europe and define a special field of interest (to be chosen in consultation with the major adviser). Two courses dealing with German history are strongly recommended.

*The major adviser in the German department will work with a second reader in another field if the thesis topic should require it.

A half-hour oral exit examination is required.

The Combined Major: German + Another Field**Requirements: 14 courses**

(Seven courses in each department, including a seminar in one of the departments and a senior essay on a topic bridging both fields.)

A student who selects a Combined Major will establish her special program in consultation with the departments concerned.

The Minor in German**Requirements: 5 courses**

Advanced language courses from GER BC 3005-8

GER BC 3011

A minimum of three additional advanced literature courses from GER BC 3011-47/48

COURSES OF INSTRUCTION**LANGUAGE COURSES****GER BC 1001x-1002y****Elementary Full-Year Course**

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice.

—M. Shulman and staff

Work with video cassettes is required.

Corequisite: GER BC 1011x-1012y. No credit is given for BC 1001x and BC 1011x unless BC 1002y and BC 1012y have been satisfactorily completed.

2 points. Sec. 1 M W F 9:00

Sec. 2 M W F 12:00

Sec. 3 M W F 4:10

GER BC 1011x-1012y**Elementary Full-Year Course**

Corequisite: BC 1001-1002

2 points. Sec. 1 Tu Th 9:00

Sec. 2 Tu Th 12:00

Sec. 3 Tu Th 4:10

GER BC 1001y**Elementary Full-Year Course, Part I**

Same as BC 1001x, but given in the Spring term.

—R. Ayre

No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

4 points. M Tu W Th F 10:00

GER BC 1002x**Elementary Full-Year Course, Part II**

Same as BC 1002y, but given in the Autumn term. —R. Ayre

4 points. M Tu W Th F 12:00

GER BC 1203x**Intermediate Course I**

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading and writing exercises. Practice in conversation aims at enlarging the vocabulary necessary for daily communication. —E. Grimm and Staff

Prerequisite: BC 1002x, BC 1002y and 1012y or the equivalent. Corequisite: BC 1213y.

2 points. Sec. 1 M W 9:00

Sec. 2 M W 1:10

Sec. 3 M W 4:10

GERMAN

GER BC 1213y **Intermediate Course I**

Corequisite: BC 1203y.

2 points. Sec. 1 Tu Th 9:00

Sec. 2 Tu Th 1:10

Sec. 3 Tu Th 4:10

GER BC 1203y **Intermediate Course I**

Same as BC 1203x, but given in the Spring term.

—E. Grimm

Prerequisite: BC 1002 or the equivalent.

4 points. M Tu W Th 1:10

GER BC 1204y **Intermediate Course II**

Language study based on literary texts: several short stories, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.

— E. Grimm and Staff

Prerequisite: BC 1203y or BC 1203x and BC 1213x.

Corequisite: BC 1214y.

2 points. Sec. 1 M W 9:00

Sec. 2 M W 1:10

Sec. 3 M W 4:10

GER BC 1214y **Intermediate Course II**

Corequisite: BC 1204y.

2 points. Sec. 1 Tu Th 9:00

Sec. 2 Tu Th 1:10

Sec. 3 Tu Th 4:10

GER BC 1204x **Intermediate Course II**

Same as BC 1204y, but given in the Autumn term.

—E. Grimm

Prerequisite: BC 1203y or BC 1203x and 1213x.

3 points. M Tu W Th F 1:10

GER BC 3005x, 3006y **Advanced German**

Intensive practice in oral and written German. Discussions, oral reports, weekly written assignments, based on material of topical and stylistic variety taken from the German press and from literary sources. Use of tape cassettes for grammar review as required by students' individual needs. Courses may be taken in reverse sequence.

—G. Sakrawa

2 points. Sec. 1 M W 10:00

3 points. Sec. 2 M W F 10:00

GER BC 3007x **Business-Economic German I**

Prerequisite: BC 1024 or permission of the instructor.

3 points. Not offered in 1994-95.

GER BC 3008y **Business-Economic German II**

Prerequisite: BC 3007x or permission of the instructor.

3 points. Not offered in 1994-95.

LITERATURE COURSES

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

GER BC 3011x **Introduction to German** **Literature and Civilization**

German literature in a historical-cultural context from the late 18th to the 20th century. Selected readings from Lessing to Handke.— E. Grimm

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 11:00

III H

GER BC 3014y **German Literature and Culture** **around the Turn of the 20th Century**

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1994-95.

H

GER BC 3015x **Goethe**

Prerequisite: BC 1204 or the equivalent. Alternate years.

3 points. Not offered in 1994-95.

III H

GER BC 3016y **The Romantic Movement in** **Germany 1790-1820**

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1994-95.

III H

GER BC 3025y **The Age of the Bourgeoisie** **in German Literature**

Short prose fiction and works of the dramatic literature by such German, Austrian and Swiss authors as Heine, Grillparzer, Keller, Stifter, Hebbel, C.F.

Meyer, and Hauptmann. —G. Sakrawa

Prerequisite: BC 1204 or permission of the instructor.

Offered every three years.

3 points. M W 1:10-2:25

III H

GER BC 3027y **Modern German Literature** **and Culture: 1900-1945**

Prerequisite: BC 1204 or the equivalent.

3 points. Not offered in 1994-95.

III H

GER BC 3028y**Contemporary German Literature
from End of World War II to Unification***Prerequisite: BC 1204 or the equivalent.**Alternate years.**3 points. Not offered in 1994-95.*

III H

GER BC 3046y**German Literature in the 18th Century***Prerequisite: BC 1204 or the equivalent. Alternate**years. Not offered in 1994-95.**See GER BC 3061x*

III H

GER BC 3061x**Seminar: Lessing, Goethe, Schiller***A study of some major works of the three authors in the context of literary and intellectual developments of the late 18th century. —G. Sakrawa**Prerequisite: Major status or permission of the instructor.**4 points. Tu 4:10-6:00*

III H

GER BC 3062y**Senior Essay***The topic must be related to one of the literature courses that the student has completed in the department. —G. Sakrawa and E. Grimm**Open to senior majors. Permission of the instructor required.**3 points. Regular consultations with the instructor at hours to be arranged.***COURSES GIVEN IN ENGLISH***German majors and minors are required to read the texts in German and to attend an additional seminar hour conducted in German in those courses indicated below.***GER BC 3047y****The Golden Age of German Medieval Literature***An exploration of the medieval literary traditions. The courtly epic: Erec, Parzival, Tristan; the Nibelungenlied; Minnesang; monastic women writers. —R. Ayre**Corequisite: GER BC 3048y required for German majors and minors.**3 points. Tu Th 2:40-3:55*

III

GER BC 3048y**The Golden Age of German Medieval Literature: Discussion Section***Discussion in German of readings for GER BC 3047y. —R. Ayre**Required for German majors and minors only: texts to be read in German. Prerequisite: GER BC 1204 or equivalent. Corequisite: GER BC 3047y.**1 point. Hours TBA.*

Professors: Robert A. McCaughey, Rosalind N. Rosenberg

Associate Professors: Mark C. Carnes (Chair), Nancy Woloch (Adjunct)

Assistant Professors: Beth Bailey, David Farber, Joel Kaye, Richard J. Lufrano, Herbert Sloan, Lisa Tiersten, Lars Trägårdh, Deborah Valenze³

Other officers of the University offering courses in History:

Professors: Roger S. Bagnall, Alan Brinkley, Richard Bulliet, Richard Bushman, Caroline Bynum, David Cannadine, Istvan Deák, Barbara Fields, Eric Foner, Carol Gluck, Arthur Goren², Victoria de Grazia, Leopold H. Haimson², William V. Harris, Martha Howell³, Kenneth Jackson¹, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis², Manning Marable, Robert O. Paxton, Eugene Rice, David J. Rothman², Simon Schama, James P. Shenton¹, Henry Smith, J.W. Smit², Robert Somerville, Michael Stanislawski, Nancy Leys Stepan³, Fritz Stern, H. Paul Varley, Isser Woloch, Richard Wortman, Marcia Wright, Yosef H. Yerushalmi, Madeleine Zelin

Associate Professors: Richard Billows, Elizabeth Blackmar, Joshua Freeman, Robert Hymes, Ayesha Jalal¹, Deborah Levenson-Estrada, Mohamed Mbodj, Marc Van de Mierop, Mark von Hagen³

Assistant Professors: David Armitage, Olivia Constable, Atina Grossmann, Mahmud Haddad, Winston James, Silvana Patriarca³, James Rives, Daryl Scott, Anders Stephanson

¹Absent on leave Autumn term

²Absent on leave Spring term

³Absent on leave 1994-95.

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence — quantitative as well as qualitative—from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

1000-level introductory lecture courses

3000-level advanced lecture courses

3400-level seminars

3700-level senior research seminars

3900-level independent research seminars

Lecture courses are defined more broadly — chronologically, geographically, thematically — than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Autumn 1994 seminars: April 15, 1994. Deadline for applications for Spring 1995 seminars: November 18, 1994. Deadline for applications for Autumn 1995 seminars: April 19, 1995.

Students should consult the Columbia College catalogue for full descriptions of Columbia history courses and for regulations concerning enrollment in these courses. Application

forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 415 Lehman. Certain Columbia graduate (“G”) courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions see the bulletin of the Graduate School of Arts and Sciences.

Students will receive six points of College credit for a score of five and three points of credit for a score of four on the Advanced Placement Examination in American or European history. These credits are not counted toward the History major.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The three principal areas of concentration are European, American, and Asian history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, or African history. The 11 required courses must include:

- 1. Three 1000-level courses (or their equivalent; for Barnard Class of 1998 or after, the 1000-level courses must be in field of concentration). Students with AP credit may substitute a more advanced course.
- 2. Two seminars
- 3. The two-semester senior research seminar (HIS BC 3791-2 or HIS BC 3793-4).

Majors may, with the approval of their advisers, take two of their 11 courses outside the department, provided that such courses are closely related to their concentrations. American Studies seminars may be substituted for History seminars.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30-50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Halfway through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the autumn semester, then complete their research and writing in the spring.

REQUIREMENTS FOR THE MINOR

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

COURSES OF INSTRUCTION

LECTURES: ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY <i>HIS BC 1004x</i> Introduction to Later Middle Ages: 1050-1450 Social environment, political and religious institutions, and the main intellectual currents of the	Latin West studied through primary sources and modern historical writings. —J. Kaye 3 points. Tu Th 10:35-11:50 III S
	<i>HIS BC 1011x</i> Introduction to European History: Renaissance to French Revolution 3 points. Not offered in 1994-95. III S

HISTORY

HIS BC 1012y

Introduction to European History: French Revolution to the Present

Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism, and imperialism; 20th-century world wars, the Great Depression, and Fascism. —L. Trägårdh

3 points. M W 2:40-3:55

III S

HIS BC 3005x

Nationalism in 20th-Century Europe

—L. Trägårdh

3 points. M W 2:40-3:55

III S

HIS BC 3026y

Medieval Intellectual History, 1050-1400

3 points. Not offered in 1994-95.

III S

HIS BC 3038y

European Women in the Age of Revolution, 1750-1890

3 points. Not offered in 1994-95.

III S

HIS BC 3039x

The "Civilizing Process": European Encounters with Non-Western Cultures

The shaping of European cultural identity through encounters with non-European cultures from 1500 to the post-colonial era. Novels, paintings, films will be among the sources used to examine such topics as exoticism in the Enlightenment, slavery and European capitalism, orientalism in art, ethnographic writings on the primitive, and tourism.

—L. Tiersten

3 points. M W 1:10-2:25

III S

HIS BC 3040y

Critical Expression

—J. Kaye, H. Sloan

3 points. Tu Th 10:35-11:50

S

HIS W 1005x

Survey of Ancient Greek History: 800-146 BC

—R. Billows

3 points. Tu Th 2:40-3:55

HIS W 1006y

The Romans and Their Empire: 754BC-565 AD

—W. Harris

3 points. Tu Th 4:10-6:00

S

HIS W 1150x

European Renaissance to Enlightenment

—E. Malefakis

3 points. M W 2:40-3:55

S

HIS W 1151y

Europe from the French Revolution

—V. De Grazia

3 points. M W 2:40-3:55

S

HIS W 3154y

France Since 1848

—R. Paxton

3 points. Tu Th 10:35-11:50

S

HIS W 3206y

European Politics and Society: 1914-1945

—I. Deák

3 points. M W 4:10-6:00

S

HIS W 3207x

Contemporary Europe: 1945-Present

—V. De Grazia

3 points. M W 11:00-12:15

S

HIS W 3218x

Germany and the Crisis of Modernity: Nation, Race and Gender in the 20th Century

—A. Grossman

3 points. Tu Th 10:35-11:50

S

HIS W 3227x

British History: 1688-1832

—D. Cannadine

3 points. Tu Th 1:10-2:25

S

HIS W 3228y

British History: 1832-Present

—D. Cannadine

3 points. Tu Th 1:10-2:25

S

HIS W 3537x, 3538y

Messianic Movements and Ideas in Jewish History I, II

—Y. Yerushalmi

3 points. M W 11:00-12:15

II S

HIS W 4251y

Historiography and Theories of History

—W. Smit

3 points. Hours TBA.

S

HIS W 4573y

Jaques-Louis David: Art, Virtue and Revolution

—S. Schama

3 points. Tu Th 10:35-11:50

S

SEMINARS:

ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY

All seminars require permission of the instructor. Enrollment limited to 15. Pre-registration required.

HIS BC 3410y**The City in Europe**

4 points. Not offered in 1994-95.

III S

HIS BC 3412x**Medieval Economic Life and Thought
c.1000-1500**

Traces the development of economic enterprises and techniques in their cultural context: agricultural markets, industry, commercial partnerships, credit, large-scale banking, insurance, merchant culture. Examines usury and just price theory, the scholastic analysis of price and value, and the recognition of the market as a self-regulating system, centuries before Adam Smith. —J. Kaye

4 points. W 2:10-4:00

III S

HIS BC 3416y**Medieval Science and Society**

4 points. Not offered in 1994-95.

III S

Offered as a graduate course Spring 1995.

HIS BC 3427x**Women, Class and Culture**

4 points. Not offered in 1994-95.

III S

HIS BC 3429x**Consuming Passions: Gender, Class and the
Culture of Consumption in France and
England, 1830 to the Present**

The development of the modern culture of consumption, with particular attention to the formation of the woman consumer. Topics include commerce and the urban landscape, changing attitudes toward shopping and spending, feminine fashion and conspicuous consumption, and the birth of advertising. Examination of etiquette manuals, novels, fashion magazines, and advertising images. —L. Tiersten

4 points. W 11:00-12:50

III S

HIS BC 3433y**European Welfare State and the Family,
1919-1980**

—L. Trägårdh

4 points. W 11:00-12:50

III S

HIS BC 3442y**The Politics of Leisure in Modern Europe**

Transformations in the culture of leisure from the onset of industrialization to the present day. Relations between elite and popular culture, and the changing relationship between the worlds of work and leisure will be among the topics considered in such settings as the department store, the pub, the cinema, and the tourist resort.

—L. Tiersten

4 points. W. 2:10-4:00

III S

HIS BC 3474x**History of the Holocaust**

4 points. Not offered in 1994-95.

III S

HIS BC 3791x-3792y**Senior Research Seminar**

Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details. —Staff

4 points. W 4:10-6:00

S

HIS W 3759x**Religious Dissent in the Roman Empire**

—J. Rives

4 points. M 11:00-12:50

S

HIS W 3841x**Culture and Society in 17th-Century Britain**

—D. Armitage

4 points. Tu 11:00-12:50

S

HIS W 3853x**Fascism**

—R. Paxton

4 points. Tu 4:10-6:00

S

HIS W 3855y**Medieval Cities and Urban Life**

—O. Constable

4 points. M 11:00-12:50

S

HIS W 3871y**Social Origins of National Socialism**

—A. Grossman

4 points. W 2:10-4:00

S

HIS W 3910y**Family and Sexuality in Greece and Rome**

—W. Harris

4 points. Tu 11:00-12:50

S

HIS W 3922x**Undergraduate Seminar on the French
Revolution**

—I. Woloch

4 points. M 11:00-12:50

S

HIS W 3962x**The Russian Revolution of 1917**

—L. Haimson

4 points. Th 4:10-6:00

S

HIS W 3965x**Institutions and Culture of Early Russia**

—R. Wortman

4 points. W 4:10-6:00

S

HIS W 3969x
The Army in European Politics and Society, 1815-1945

—I. Deák
 4 points. Tu 6:10-8:00

HIS W 3983y
The Making of the Modern British Monarchy

—D. Cannadine
 4 points. W 4:10-6:00

HIS W 3989x
Hasidism

—M. Stanislawski
 4 points. Th 9:00-10:50

LECTURES: AMERICAN HISTORY

HIS BC 1051x
Survey of American Civilization to the Civil War

The major theological and social concerns of 17th-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war. —H. Sloan
 3 points. Tu Th 10:35-11:50

III S

HIS BC 1052y
Survey of American Civilization Since the Civil War

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post-World War II developments. —D. Farber, R. Rosenberg
 3 points. Tu Th 2:40-3:55

III S

HIS BC 3052y
The Constitution in Historical Perspective

The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in republicanism; states rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; the challenge of civil rights. —H. Sloan
 3 points. Tu Th 2:40-3:55

III S

HIS BC 3056x
The American Civil Rights Movement

An overview of the struggles made by some Americans in the 20th century to gain the civil rights they had historically been denied by other Americans. The focus will be on the African-Americans until the latter part of the course, when a broad range of civil rights movements

will be examined. —D. Farber
 3 points. Tu Th 2:40-3:55

III S

HIS BC 3067x
America Since 1945

A consideration of the Cold War, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs. —M. Carnes
 3 points. M W 11:00-12:15

III S

HIS BC 3071x
American Cultural History

Traces the development of modern American culture, analyzing the "problem" of democracy in a mass society. Topics will include victorianism, modernism, postmodernism, technology, mass media, art, advertising, cultures of resistance and dissent, and the emergence of "lifestyle." —B. Bailey
 3 points. M W 1:10-2:25

III S

HIS BC 3074x
History of Sexuality

3 points. Not offered in 1994-95.

III S

HIS BC 3082x
American Women in the 20th Century

A consideration of women's changing place in modern America; the "family claim;" women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; the new feminism. —R. Rosenberg
 3 points. Tu Th 2:40-3:55

III S

HIS BC 3083x
American Intellectual History: To the Civil War

An examination of the major ideas, leading thinkers and their institutional settings from the first English settlements to Appomattox; special attention to the Puritan transit, an American Enlightenment, the Jackson turn, Transcendentalism, and democratic racism. —R. McCaughey
 BC 1051 recommended.

3 points. M W 2:40-3:55

HIS BC 3085x
America in the 1960's

3 points. Not offered in 1994-95.

III S

HIS W 1109x
Main Currents in American History: 1492-1877

—R. Bushman
 3 points. M W 1:10-2:25 plus one hour to be arranged.

S

HIS W 1110y History: 1877 to Present —E. Blackmar 3 points. Tu Th 4:10-5:25		HIS W 3644x Ethnicity and Race —J. Shenton 3 points. Hours TBA.	
HIS W 3000x Introduction to African-American Studies —M. Marable 3 points. M W 2:40-3:55	S		S
HIS W 3004x African-American History Since 1865 —D. Scott 3 points. M W 1:10-2:25		SEMINARS: AMERICAN HISTORY All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required.	
HIS W 3121x U.S. in the Era of Slavery and Jacksonian Democracy —E. Foner 3 points. M W 11:00-12:15	S	HIS BC 3444x Bourgeois America 4 points. Not offered in 1994-95.	III S
HIS W 3122y U.S. in the Era of Civil War and Reconstruction —E. Foner 3 points. M W 11:00-12:15		HIS BC 3451y Law and American Society Law in colonial America; contract and property in the New Republic; Tort Law and the rise of negligence; women and slaves; the science of law; the death of contract; the legal profession. —R. Rosenberg 4 points. W 2:10-4:00	III S
HIS W 3488y History of the American South —B. Fields 3 points. Tu Th 11:00-12:15	S	HIS BC 3452x Origins of the Constitution 4 points. Not offered in 1994-95.	III S
HIS W 3548x American Jewish History —A. Goren 3 points. Tu Th 4:10-5:25		HIS BC 3454y Cultural Studies 4 points. Not offered in 1994-95.	III S
HIS W 3643y Slavery and Slave Resistance in the Americas —W. James 3 points. M W 1:10-2:25	S	HIS BC 3458y War and 20th-Century American Culture Examines the ways in which the cultural understandings of Americans have shaped their wars; the use of media and other cultural products in waging war or in protesting against it; and the cultural products of wartime, including music, literature, film, and art. —B. Bailey 4 points. Tu 11:00-12:50	III S
HIS W 3649x America 1918-1945 —A. Brinkley 3 points. Tu Th 11:00-12:155		HIS BC 3460y Progressive Women: 1890-1920 An exploration of women's activism in public life and social reform. Topics include separatism, institution-founding, the college experience, women's professions, the settlement movement, trade unionism, suffragism, pre-war radicalism, social feminism, and utopian feminism. —N. Woloch 4 points. Tu 11:00-12:50	III S
HIS W 3651y The United States Since 1945 —J. Freeman 3 points. Tu Th 10:35-11:50	S	HIS BC 3463x American Women in the 1920's —N. Woloch 4 points. Not offered in 1994-95.	III S
HIS W 3660x Harlem: A Social and Cultural History, 1890-1965 —W. James 3 points. M W 1:10-2:25	S		

HIS BC 3464x

Higher Learning in America

An examination of the history of American colleges and universities from the colonies to the present; special emphasis on the evolving relationship between academic institutions and the political and social orders. —R. McCaughey
4 points. Tu 4:10-6:00 III S

ASH BC 3469y

Elites in 20th-Century America

An examination of the roles elites have played in 20th-century America. —D. Farber
4 points. W 11:00-12:50 III S

ASH BC 3400x

Everyday Life in Post-War America

A consideration of long term trends in, and relationships among, topics such as work, recreation, religion, housing, education, popular culture, and family life from 1945 to the present. —M. Carnes
4 points. M 2:10-4:00 III S

ASH BC 3401x

Approaches to American Cultural History

Colloquium—See American Studies for description. —B. Bailey
4 points. Tu 2:10-4:00 III S

HIS BC 3477x

Gender in the Bourgeois World

4 points. Not offered in 1994-95. III S

HIS BC 3480y

American Women Since 1945

4 points. Not offered in 1994-95. III S

HIS BC 3489y

The Fourteenth Amendment and Its Uses

The role of the 14th Amendment in shaping the modern American Constitution; theories of judicial review; the rise and fall of economic due process; the creation of civil liberties; the civil rights revolution; the end of states' rights. —H. Sloan
4 points. Tu 4:10-6:00 III S

HIS BC 3461x

Education in American History

Seminar—See Education for description. —N. Woloch
4 points. Tu 2:10-4:00 III S

HIS BC 3462y

Plantation Societies in 17th- and 18th-Century British America

4 points. Not offered in 1994-95. III S

HIS BC 3793x-3794y

Senior Research Seminar

Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details. —Staff
Open to senior majors; others by permission of the instructor.
4 points. W 4:10-6:00 S

HIS W 3647x

Republicanism and Its Discontents

—E. Blackmar
4 points. Tu 11:00-1:00 S

HIS W 3740y

Telling About the South: Southerners and Southernness in History and Literature

—B. Fields
4 points. Th 4:10-6:00 S

HIS W 3795y

Society and Politics in the Gilded Age

—E. Blackmar
4 points. W 4:10-6:00 S

HIS W 3877x

Politics, Culture and the New Negro Movement, 1900-1930

—W. James
4 points. W 4:10-6:00 S

HIS W 3881x

Color, Class and Gender in African-American History

—D. Scott
4 points. M 9:00-10:50 S

HIS W 3886y

America in the 1960s

—B. Tischler
4 points. Th 2:10-4:00 S

HIS W 3889x

Research Seminar in African-American History

—E. Foner
4 points. M 4:10-6:00 S

HIS W 3896 x

Foundations of the American Republic

—R. Bushman
4 points. Tu 4:10-6:00 S

HIS W 3925x

People of the Old South Before the Civil War

—B. Fields
4 points. W 2:10-4:00 S

HIS W 3931x**Slavery and Race Relations in America**

—H. Klein

4 points. Th 2:10-4:00

S

HIS W 3948x, 3949y**Senior Seminar in Modern U.S. History**

—J. Freeman

4 points. Th 2:10-4:00

S

HIS W 3950y**Comparative Urbanization in World Perspective**

—K. Jackson

4 points. Tu 2:10-4:00

S

HIS W 3932y**Segregation and Racism**

—J. Shenton

4 points. Hours TBA.

S

LECTURES:**ASIAN, LATIN AMERICAN, AFRICAN, AND MIDDLE EASTERN HISTORY****HIS BC 1021x****Late Imperial China, 1550-1900**

An introduction to China during the late Ming and Qing dynasties, with emphasis on dynastic change, commercialization, urbanization, population growth, imperialist encroachment, and mid-19th century rebellion. —R. Lufrano

3 points. M W 2:40-3:55

II S

HIS BC 1022y**China in the Twentieth Century**

Attempts at state formation and the rise of the revolutionary parties; foreign power intervention, economic crisis and development, and the rise of new social classes; the changing status of women and intellectual and cultural change. —R. Lufrano

3 points. M W 2:40-3:55

II S

HIS W 1004y**African Civilization**

—M. Wright

3 points. Hours TBA.

S

SEMINARS:**ASIAN, LATIN AMERICAN, AND AFRICAN HISTORY**

All seminars require permission of the instructor. Enrollment limited to 15. Preregistration required.

See under Asian and Middle Eastern Cultures for additional courses.

HIS BC 3430x**The Cultural Revolution in China**

Origins, history, and the aftermath of one of the pivotal events in 20th-century Chinese history. Emphasis on ideological and power struggles, the role of the Red Guards and the army, and the effect of radical policies on society and economy.

—R. Lufrano

4 points. Th 4:10-6:00

II S

HIS BC 3443y**Images of China and America**

Over the centuries images of the other civilization shaped intercourse between China and the West, and the United States in particular. An exploration of how these images were created, how they changed over time, and how they influenced one another deepens our knowledge of Sino-American relations. —R. Lufrano

4 points. Tu 4:10-6:00

II S

HIS BC 3799x, y**Independent Study**

—Staff

4 points.

S

HIS W 3916x**Colonialism Through African Eyes**

—M. Mbodj

4 points. Hours TBA.

S

HIS W 3931x**Slavery and Race Relations in the America**

—H. Klein

4 points. Th 2:10-4:00

S

HIS W 3984y**Undergraduate Seminar on Family and Kin in Latin America**

—D. Levenson

4 points. Hours TBA.

S

OTHER OFFERINGS

Full description of courses offered by Barnard faculty of interest to students of history can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered in Paris. Additional information about the programs is available in 412 Lewisohn Hall.

History H 2503x, y

Introduction to

French Civilization and Culture

Contemporary French society in historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French. —A. Chebel-d'Appollia

3 points.

S

History-Political Science H 3240x, y

The State and Political Life in France from the Revolution to the Present

The continuity and discontinuity of French political life during the past 200 years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of

contemporary France are discussed. —D. Hemery
3 points.

S

History-Political Science H 3260y

The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis; the Dreyfus case, the thirties, World War II, the Algerian War, etc. —C. Prochassons

3 points.

S

History H 3460x

Intellectual and Social History of Paris

A historical and architectural introduction from the city's origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world. —J. M. Léri

3 points.

S

- Assistant Professor:** Antonella Ansani
- Associate:** Daniela Noè
- Other officers of the University offering courses in Italian:
- Professors:** Teodolinda Barolini, Luciano Rebay
- Associate Professor:** Jo Ann Cavallo
- Assistant Professors:** Nelson Moe, Massimo Pesaresi
- Lecturers:** Mario Bellati, Maria Luisa Gozzi, Giuseppe Trapanese

For organizational purposes faculty teaching Italian language and literature courses will be included in the Department of German, Italian, and Linguistics.

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of Italian, the comprehensive elementary and intermediate course is recommended. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and are open to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian office is located in 317 Milbank Hall, and the Columbia department is housed in 502 Hamilton.

Graduate courses are open to qualified students with permission of the instructor.

REQUIREMENTS FOR THE MAJOR

The courses in Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible.

The following courses are required unless advanced standing is attained by the Department Placement examination:

ITA V 1101-V 1102	<i>Elementary Full-Year Course</i>
ITA V 1201-V 1202	<i>Intermediate Course</i>

10 courses are required for the major including:

ITA V 3333-V 3334	<i>Introduction to Italian Literature</i>
ITA V 3335-V 3336	<i>Italian Written and Oral Style</i>
ITA V 3993-V 3994	<i>Seminar in Italian Literature</i>

plus at least four more courses in Italian numbered above ITA W 1312.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor, to be selected from courses including and numbered above ITA V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with ITA V 1101-V 1102 and V 1201-V 1202 (or their equivalents). Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard or Columbia, must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period in 502 Hamilton.

COURSES OF INSTRUCTION

ITA V 1101x-V 1102y

Elementary Full-Year Course

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed. —D. Noè and associates

Enrollment limited to 20 students per section.

4 points. Sec. 1 M Tu W Th 9:00-9:50

Sec. 2, 3 M Tu W Th 10:00-10:50

Sec. 4, 5 M Tu W Th 12:00-12:50

Sec. 6 M Tu W Th 1:10-2:00

ITA F 1101x-F 1102y

Elementary Full-Year Course

—Staff

4 points. Sec. 1 M W 6:10-8:00

Sec 2 Tu Th 6:10-8:00

ITA F 1102x, F 1101y

Elementary Full-Year Course

—G. Trapanese

4 points. Sec. 1 M W F 1:10-2:25

ITA W 1111x, W 1112y

Elementary Conversation

Intensive practice in pronunciation, vocabulary, reading aloud, comprehension of the spoken language, and conversation. —M. Bellati

Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.

Conversation courses may not be used to satisfy the language requirement.

2 points. Tu Th 1:10-2:25

ITA V 1201x-V 1202y

Intermediate Course

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. —D. Noè and M.L. Gozzi

Prerequisite: V/F 1102 or the equivalent. Enrollment limited to 20 students per section.

4 points. Sec. 1 M Tu W Th 11:00-11:50

Sec. 2, 3 M Tu W Th 12:00-12:50

ITA F 1201x-F 1202y

Intermediate Course

—G. Trapanese

Prerequisite: V/F 1102 or the equivalent.

4 points. M W 6:10-8:00

ITA F 1202x-F 1201y

Intermediate Course

—M.L. Gozzi

Prerequisite: V/F 1102 or the equivalent.

4 points. M Tu W Th 1:10-2:00

ITA W 1221x, W 1222y

Intermediate Conversation

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports.

—M. Bellati

Conversation courses may not be used to satisfy the language requirement. Prerequisite: ITA W 1112 or sufficient fluency to satisfy the instructor.

2 points. Tu Th 2:40-3:55

ITA V 1301x-V 1302y

Comprehensive Elementary and Intermediate Course

Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of two full years of work in elementary and intermediate Italian grammar with stress on reading and conversing.

This course may not be used to satisfy the language requirement. Students must receive permission to register from the department in 502 Hamilton.

4 points. Sec. 1 M W F 4:10-5:25 —G. Trapanese

Sec. 2 M Tu W Th 10:00-10:50 —D. Noè

ITA W 1311x, 1312y

Advanced Conversation

Practice in the spoken language through assigned topics on contemporary Italian culture. Conversation courses may not be used to satisfy the language requirement. —M. Bellati

Prerequisite: ITA W 1222 or permission of the instructor.

2 points. Tu Th 10:35-11:50

ITA V 3335x, V 3336y**Italian Written and Oral Style**

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review. —A. Ansani

Prerequisite: V 1201-1202 or the equivalent.

3 points. Tu Th 1:10-2:25

LITERATURE COURSES

For non-majors, the literature courses listed below will count toward the distribution requirement.

ITA V 3230y**The Italian Novella in the Middle Ages and the Renaissance**

A study of the origins and development of the Italian novella as literary genre. Readings include selections from Boccaccio's *Decameron* and other 15th- and 16th-century novella writers.

—A. Ansani

3 points. Tu Th 10:35-11:50

III H

ITA V 3333x, V 3334y**Introduction to Italian Literature**

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature. —V 3333: T. Barolini; V 3334: M. Pesaresi

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. M W 2:40-3:55

III H

ITA V 3449x**Modern Italian Literature**

Nineteenth- and 20th-century prose and poetry. Readings and lectures in Italian; class discussions and written assignments in either Italian or English. —L. Rebay

Prerequisite: ITA V 1202 -F 1202 or the equivalent.

3 points. M W 1:10-2:25

ITA V 3891x**Dante, *La Divina Commedia***

Prerequisite: two years of college-level Italian or the equivalent.

3 points Not offered in 1994-95.

III H

ITA V 3993x-3994y**Seminar in Italian Literature**

Required of students with a major or concentration in Italian. Open to other qualified students with permission of Departmental Representative.

—A. Ansani, T. Barolini, J. Cavallo, N. Moe, M. Pesaresi, L. Rebay

Hours TBA.

H

ITA W 4039x**Imitation and Innovation in Italian Renaissance Theatre**

A study of several major 16th-century Italian plays, focusing on comedy, but also exploring tragedy, *favola pastorale*, and *tragicommedia*.

Readings will include plays by Bernardo Dovizi da Bibbiena, Ariosto, Machiavelli, Bruno, Aretino, Trissino, Tasso and Guarini. —A. Ansani

Prerequisite: ITA V 1202 or F 1202, or the equivalent.

3 points. Tu Th 10:35-11:50

III H

ITA W 4091x-W4092y**Dante's *Divina Commedia***

A one-year course in which the *Commedia* is read over two consecutive semesters for a thorough grounding in the entire text and an introduction to the complexities of its exegetical history. Particular attention is given to Dante's mimesis, his construction of an authorial voice that generations of readers have perceived as "true". —T. Barolini

Prerequisite: ITA V 1202 or F 1202, or the equivalent.

3 points. Tu Th 2:40-3:55

III H

ITA W 4502x**Italian Cultural Studies I: from Unification to World War I.**

An interdisciplinary study of Italian culture from the years of Unification (1860) to the outbreak of World War I. —N. Moe

3 points. M W 4:10-5:25

III H

ITA W 4503y**Italian Cultural Studies II: from World War I to Present.**

An interdisciplinary study of Italian culture from World War I to the present. —N. Moe

3 points. M W 4:10-5:25

III H

ITA W 4200y**Once Upon a Time, in a Far Away Land: the Italian Fairy Tale.**

Prerequisite: Permission of the instructor. [In English] optional 4th hour in Italian for majors/minors.

3 points. Not offered in 1994-95.

III H

Professor: Joseph L. Malone¹ (Chair), Morton Klass (Acting Chair, Spring)

Other Barnard officers offering courses listed below:

Professor: Robert Remez (Psychology)

Associate Assistant Professors: Mara Kashper (Russian), Gail Musen (Psychology), Anne Boyman (French)

Other officers of the University offering courses listed below:

Professors: Haim Gaifman (Philosophy), Robert Krauss (Psychology), Hilary Sachs

Assistant Professors: Frank Miller (Slavic), Mark J. Petrini (Classics)

¹Absent on leave Spring term

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with the Departmental Chair or his designated representative, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 32).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x.

Introduction to Linguistics

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis. —J. Malone

Enrollment limited to 100 students. Advance sign-up required.

3 points. Tu Th 9:10-10:25

S

LIN V 3410y

The Science of Linguistics and the Art of Translation

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar to them for analysis and translation. —J. Malone

Prerequisite: V 1101 or permission of the instructor.

Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.

3 points. Not offered in 1994-95.

S

LIN V 3412y

Linguistics and the Translation of Poetic Language

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g., by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.

3 points. Not offered in 1994-95.

S

LIN V 3414y

Linguistics and the Structure of Texts

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Text used for illustration and analysis will be in various languages. —J. Malone

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3412.

3 points. Not offered in 1994-95.

LIN BC 3052y
Gender Systems

The structure and function of gender systems and similar linguistic marking networks: systems based on sex (e.g. Spanish, Arabic), animacy (e.g. Ojibwa), shape (e.g. Chinese classifiers). Natural, arbitrary, and emblematic systems. Pronouns, syntax, and semantics; social implications of sex-based marking; measures taken to combat sexist effects. —J. Malone
Enrollment limited to 25. Prerequisite: V 1101 or permission of the instructor. Advance sign-up required.
 3 points. Not offered in 1994-95.

LIN BC 3600y
Introduction to Semitic Languages and Linguistics

Enrollment limited to 25. Advance sign-up required. Prerequisite: Previous or concurrent work in some Semitic language, or permission of the instructor.
 3 points. Not offered in 1994-95.

LIN W 4204x
Introduction to Phonology

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.
 3 points. Not offered in 1994-95.

LIN W 4108y
Principles of Historical Linguistics

Prerequisite: For undergraduates, either V 1101 or permission of the instructor.
 3 points. Not offered in 1994-95.

LIN W 4901x
Synchronic and Diachronic Generative Phonology

The theory and practice of phonology from N. Chomsky's and M. Halle's *The Sound Pattern of English* (1968) and R. King's *Historical Linguistics and Generative Grammar* (1969) through the present. Phonological rules and representations viewed both through time (internal reconstruction, comparative method) and ahistorically. Some consideration of autosegmental, lexical, metrical, and grid phonologies. —J. Malone
Prerequisite: for undergraduates, either V1101 or permission of the instructor.
 3 points. Tu Th 10:35-11:50

LIN W 4903x
Semantics and Generative-transformational Syntax

Prerequisite: for undergraduates, either V 1101 or permission of the instructor.
 3 points. Not offered in 1994-95.

PHI 3411x, y
Introduction to Symbolic Logic

—H. Gaifman
 3 points: x: Tu Th 1:10-2:25
 y: M W 11:00-12:15

PSY BC 3180x
Cognitive Psychology

—G. Musen
 3 points. Hours TBA.

PSY BC 3164y
Perception and Language

—R. Remez
 3 points. Hours TBA.

PSY W 2604y
Human Communication

—R. Krauss
 3 points. Tu Th 10:35-11:50

FRRP W 3450y
French Dialectology

—Instructor TBA.
 3 points. Hours TBA.

FRRP W 3510y
History of Romance Language

—H. Sachs
 3 points. M W 9:00-10:25

RUS V 3421x
Russian Phonetics and Intonation

—M. Kashper
 2 points. Tu Th 11:00-11:50

See Columbia College catalog for other courses in Linguistics.

Professor: Joan S. Birman¹

Associate Professors: David A. Bayer (Chair)

Assistant Professor: Maia J. Fraser², J. M. Landsberg (Visiting)

Other officers of the University offering courses in Mathematics:

Professors: Hyman Bass, Robert Friedman, Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet¹, Troels Jørgensen, Masatake Kuranishi, John W. Morgan, Duong Hong Phong, Henry Pinkham²

Associate Professor: Xiao-Song Lin

J. F. Ritt Assistant Professors: Sean Bates, R. Dabrowski, David Farmer¹, Benji Fisher, F. Francsics, Michael Grossberg, Ming Hyong Kim, Ramanujachary Kumandori, Daniel Lieman¹, Jie Qing, Rachel Roberts¹, Roberto Silvotti, James Woodson², Jonathan Weitsman¹, Gretchen Wright, Siye Wu

¹Absent on leave 1994-95

²Absent on leave Spring term

The Mathematics Department offers a wide range of courses, which fall into groups: service courses for students who need to learn the tools of mathematics, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Students interested in Computer Science should consult the program listing of that department, page 111.

GENERAL INFORMATION

A passing grade on the Basic Math Skills test is required for entry into any of the offerings of the Mathematics Department. Students who fail that test must pass Quantitative Reasoning BC 1001 *Basic Mathematics Skills* before they can be admitted to any mathematics courses.

The pre-calculus offering is W 1003, *College Algebra and Analytic Geometry*.

Mathematics V 1010 *Groups and Symmetries*, and V 1011 *Surfaces and Knots* are appropriate choices for students who are seeking a course which is not too difficult and which is distinctly different from high school mathematics. These courses are designed for students who do not intend to continue with any of the Calculus offerings.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: *Calculus IA, IIA, IIIA, IIIS/IVA* (MAT V 1101, V 1102, V 1205/V 1202); *Calculus IS, IIS, IIIS/IVA* (MAT V 1105, V 1106, V 1205/V 1202); *Honors Mathematics I, II, III, IV* (MAT V 1107, V 1108, V 1207, V 1208).

The A-sequence is a standard course in differential and integral calculus. The S-sequence covers the same topics as A, but is taught at a faster pace, so as to allow well-prepared students to cover more rapidly the calculus needed for their studies.

The S-Sequence covers in two semesters the same material as is covered in the A-sequence in three semesters.

CAUTION: *Students who take IIA after completing IS are repeating one point of material, and therefore will only receive 2 points of credit for IIA.*

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the

first class. Transfer to a calculus course, if appropriate, can be easily arranged during the term.

A fourth sequence on the first year level, *Calculus for Social Sciences I, II*, is designed for prospective Social Sciences and humanities majors.

Students who have passed the advanced placement test for *Calculus AB* with a grade of 5 or BC calculus with a grade of 4 or 5 will be allowed to start with *Calculus IIS* and receive 4 points of credit. Students with 3 or less on advanced placement will receive no credit. Those who passed *Calculus AB* with a grade of 4 will have to take a placement test with the Mathematics Department before being allowed to start with *Calculus IIS*. They will receive 4 points of credit only after passing *Calculus IIS*.

Students who have special placement problems should go to Room 404 Mathematics (or 404 Altschul) to arrange an appointment with a faculty member or the chair during Orientation Week.

Two help rooms, one in 404 Mathematics and one in 404 Altschul, will be open all term (hours will be posted on the door), for students seeking individual help and counseling from the instructors and teaching assistants.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the Chair or with the administrative assistant (404 Altschul) to choose a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Students who are interested in an applied mathematics major with an emphasis on applications to economics should consult with a faculty member to plan an individual program.

Courses for a major in mathematics. 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors MAT, I-IV*; 18 points in mathematics courses numbered above 2000; and 12 points in any combination of mathematics and cognate courses. The courses in mathematics must include MAT V 2010, W 4041-W 4042, W 4061- W 4062, and at least one term of MAT V 3951- V 3952. In exceptional cases, the Chair will approve the substitution of certain more advanced courses for those mentioned above. However, students who are not contemplating graduate study in mathematics may replace one or both of the two semesters of MAT W 4061-W 4062 with MAT V 2500 and/or MAT W 4032.

Courses for a major in applied mathematics: 42 points (or 41 points if the Calculus S sequence is chosen): 11 or 12 points in *Calculus S* or *A* or *Honors Mathematics, I-IV*; 3 points in MAT V 2010; 3 points in MAT W 4061; 8 points in APM E 4901-4902 (no points in the junior year), APM 4903-4904 (6 points in the senior year); 18 points in electives from the following courses: MAT V 2500; MAT V 3030; MAT V 3027; MAT V 3028; MAT V 3007; MAT W 4032; *Statistics IEOR W 3658*; APM E 4300; and others (with the approval of the Applied Mathematics Committee). The electives should include MAT V 3030 or MAT V 3027 *Statistics—IEOR W 3658*. MAT W 4061 can be replaced by MAT V 2500 or MAT W 4032.

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chair.

COURSES OF INSTRUCTION

MAT W 1003x, y

College Algebra and Analytic Geometry

For students who do not have a firm enough grasp of basic mathematics to begin the study of calculus. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. —Staff

3 points.

x: Sec. 1 M W F 1:10-2:25

Sec. 2 Tu Th 7:10-9:05

Sec. 3 M W 9:00-10:55

Sec. 4 Tu Th 4:10-6:05

Sec. 5 M W 6:10-8:05

y: Sec. 1 M W F 1:10-2:25

Sec. 2 Tu Th 7:10-9:05

Sec. 3 M W 9:00-10:55

Sec. 4 Tu Th 4:10-6:05

Sec. 5 M W 6:10-8:05

MAT V 1010x

Groups and Symmetry

An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. —G. Wright
Prerequisite: Intermediate algebra and trigonometry.
3 points. M W F 9:00-9:50

MAT V 1011y

Surfaces and Knots

An elementary introduction to contemporary topology. Topological graph theory. Surfaces, knots, links, and braids. —G. Wright
Prerequisite: Intermediate algebra, geometry, and trigonometry.
3 points. M W F 9:00-9:50

MAT V 1101x, y

Calculus IA

Functions, limits, derivatives; introduction to integrals. —Staff

Prerequisite: a firm grasp of high school mathematics through trigonometry, or MAT W 1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall (hours posted on door) is open to students seeking individual help from the instructors and teaching assistants.
3 points.

x: Sec. 1 M W F 9:00-9:50 —P. Gallagher

Sec. 2 M W F 10:00-10:50 —F. Francsics

Sec. 3 M W F 11:00-11:50 —J. Qing

Sec. 4 M W F 11:00-11:50 —F. Francsics

Sec. 5 M W 1:10-2:25 —H. Bass

Sec. 6 Tu Th 9:10-10:25 —M. Kim

Sec. 7 Tu Th 6:10-7:25 —M. Grossberg

y: Sec. 1 M W F 11:00-11:50 —J. Qing

Sec. 2 M W 4:10-5:25 —M. Heumos

Sec. 3 Tu Th 4:10-5:25 —R. Silvotti

Sec. 4 Tu Th 6:10-7:25 —T. Jørgensen

MAT V 1102x, y

Calculus IIA

Methods of integration; applications of the integral: Taylor's Theorem; infinite series. —Staff
Prerequisite: Course V 1101 or the equivalent.

3 points.

x: Sec. 1 M W F 10:00-10:50 —G. Wright

Sec. 2 M W 4:10-5:25 —M. Heumos

Sec. 3 Tu Th 6:10-7:25 —T. Jørgensen

y: Sec. 1 M W F 9:00-9:50 —P. Gallagher

Sec. 2 M W F 10:00-10:50 —F. Francsics

Sec. 3 M W F 11:00-11:50 —F. Francsics

Sec. 4 M W 1:10-2:25 —H. Bass

Sec. 5 Tu Th 9:10-10:25 —M. Kim

Sec. 6 Tu Th 6:10-7:25 —M. Grossberg

MAT V 1105x

Calculus IS

Differentiation and integration, applications, transcendental functions, techniques of integration. Lectures: 3 hours; problem session: 1 hour. Students must register for the problem session.
4 points.

Sec. 1 M W F 10:00-10:50 —Instructor TBA

Sec. 2 M W F 11:00-11:50 —J.M. Landsberg

Sec. 3 M W 1:10-2:25 —D. Goldfeld

MAT V 1106x, y

Calculus IIS

Improper integrals, Taylor's formula, infinite series, complex exponential vectors in \mathbb{R}^2 and \mathbb{R}^3 , vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradient surfaces, optimization, and the method of Lagrange multipliers. Lecture: 3 hours; problem session: 1 hour. Students must register for the problem session. Some calculus background assumed.

Prerequisite: Course V 1105 or the equivalent.
4 points.

x: Sec. 1 M W F 9:00-9:50 —R. Dabrowski

Sec. 2 M W F 10:00-10:50 —R. Dabrowski

y: Sec. 1 M W F 10:00-10:50 —Instructor TBA

Sec. 2 M W F 11:00-11:50 —J.M. Landsberg

Sec. 3 M W 1:10-2:25 —D. Goldfeld

MAT V 1107x, 1108y
Honors Mathematics I-II

For further information see the discussion under "General Information," page 185 —X.S. Lin
3 points. Tu Th 10:35-11:50

MAT V 1111x, 1112y
Calculus for Social Sciences I & II

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, partial derivatives, optimization; y: integrals, differential equations, infinite series, Taylor's formula. V 1111: derivatives, transcendental functions, partial derivatives, optimization. V 1112: integrals, differential equations, infinite series, Taylor formula, applications of the calculus to probability.
Prerequisite: Same as for V 1101, V 1102.
3 points.

x: M W F 10:00-10:50 — M. Fraser
y: M W F 10:00-10:50 —Instructor TBA

MAT V 1201x, y
Calculus IIIA

Vectors in dimensions 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extreme; double and triple integrals.
Prerequisite: Course V 1102 or the equivalent.
3 points.

x: Sec. 1 Tu Th 9:10-10:25 —J. Woodson
Sec. 2 Tu Th 1:10-2:25 —M. Kim
y: Sec. 1 M W F 10:00-10:50 —G. Wright
Sec. 2 Tu Th 6:10-7:25 —S. Wu

MAT V 1202y Calculus IVA
MAT V 1205x, y Calculus IIIS

Multiple integrals, Taylor's formula in several variables, line and surface integrals, calculus of vector fields.
Prerequisite: Course V 1106 or V 1201 or the equivalent.
3 points.

1202y: Tu Th 1:10-2:25 —M. Kim
1205x: Sec. 1 Tu Th 10:35-11:50 —H. Pinkham
Sec. 2 Tu Th 1:10-2:25 —D. Phong
Sec. 3 Tu Th 6:10-7:25 —S. Wu
1205y: Sec. 1 M W F 9:00-9:50 —R. Dabrowski
Sec. 2 M W F 10:00-10:50 —R. Dabrowski
Sec. 3 M W 1:10-2:25 —P. Gallagher

MAT V 1207x, 1208y
Honors Mathematics III, IV

—R. Friedman
Prerequisite: Course V 1107- V 1108. Course V 1207 is the prerequisite for V 1208.
3 points. M W F 11:00-11:50

MAT V 2010x or y
Linear Algebra

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, canonical forms, applications. —D. Bayer
Prerequisite: Calculus II S or III A or the equivalent.
3 points. x: Tu Th 9:10-10:25
y: Tu Th 9:10-10:25

MAT V 2500y
Analysis and Optimization

Topics in analysis used in optimization theory. Least upper bound, topology of \mathbb{R}^n , continuous functions, differential functions. Quadratic forms, Hessian, implicit functions. Convex sets, convex functions. Survey of linear, quadratic, geometric programming. Optimization under constraints equalities and inequalities. Algorithms. Elements of the calculus variations and optimal control. —D. Bayer
Prerequisite: Calculus IS, IIS or the equivalent.
Corequisite: Linear Algebra.
3 points. Tu Th 2:40-3:55

MAT V 3007x
Complex Variables

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-Riemann equations; Cauchy integral theorem, Taylor and Laurent series poles and essential singularities; residue theorem and conformal mapping. —M. Kuranishi
Prerequisite: V 1205.
3 points. Tu Th 2:40-3:55

MAT V 3020x
Elementary Number Theory

Congruences. Primitive roots. Quadratic residues. Contemporary applications. —R. Kumandori
Prerequisite: one year of calculus.
3 points. M W 1:10-2:25

MAT V 3021y
Combinatorial Number Theory

Advanced topics in number theory. Continued fractions. Approximations by rational numbers. Transcendental numbers. Arithmetic functions. Partitions of numbers and their generating functions. Stress on the combinatorial and algorithmic aspects of number theory. Contemporary applications. —R. Kumandori
Prerequisite: MAT V 3020 or MAT W 4041.
3 points. M W 1:10-2:25

MAT V 3027x
Ordinary Differential Equations

Equations of order one: linear equations series solutions at regular and singular points, boundary value

problems; selected applications. —R. Silvotti
Prerequisite: MAT 1201 or the equivalent.
 3 points. Tu Th 6:10-7:25

MAT V 3028y **Partial Differential Equations**

Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems. —R. Silvotti
Prerequisite: Course V 3027 or the equivalent.
 3 points. Tu Th 6:10-7:25

MAT V 3030x **Dynamical Systems**

Systems, in particular, linear systems of differential equations. Qualitative study of the solutions. —J. Woodson
Prerequisite: MAT V 1202 or V 1205, and MAT W 2010.
 3 points. Tu Th 10:35-11:50

MAT V 3901 x, 3902y **Supervised Readings in Mathematics**

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required. —Staff
Permission of the chairman and of the staff member who agrees to act as sponsor are required.
 2 or 3 points. Hours TBA.

MAT V 3951 x, 3952y **Undergraduate Seminars in Mathematics**

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow. —B. Fisher
Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.
 3 points. Hours TBA.
 Consult 4th-floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

MAT W 4032x **Fourier Analysis**

Fourier series and integrals, discrete analogues, inversion and Poisson summation formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier Analysis to a wide range of disciplines. —R. Silvotti
Prerequisite: Three terms of calculus and linear

algebra or four terms of calculus.
 3 points. Tu Th 4:10-5:25

MAT W 4041x, W 4042y **Introduction to Modern Algebra**

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory. —B. Fisher
Prerequisite: MAT V 1205, V 2010.
 3 points. M W 2:40-3:55

MAT W 4061x, 4062y **Introduction to Modern Analysis**

The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor. —M. Grossberg
Prerequisite: MAT V 1205 or the equivalent, and MAT V 2010.
 3 points. Tu Th 4:10-5:25

APM E 4901x-4902y **Seminar: Problems in Applied Mathematics**

Required for all applied mathematics majors in the junior year. Introductory seminars on problems and techniques in applied mathematics. Typical topics of nonlinear dynamics, scientific computation, economics, and operations research. —C.K. Chu
Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.
 No points. Tu 12:00-1:00

APM E 4093x-y **Seminar: Problems in Applied Mathematics**

Required for all applied mathematics majors in the senior year. It consists of the same weekly lecture as Engineering Mathematics E 4901-4902 plus two hours of tutorials a week. Examples of problem areas are nonlinear dynamics, asymptotics, approximation theory, and numerical methods. —C.K. Chu
Prerequisite or corequisite: MAT V 3007, V 3028, and V 2010, or their equivalents.
 3 points. Tu 12:00-2:00, Th 1:00-2:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professors of Art History: Keith Moxey, Jane Rosenthal¹

Associate Professor of Classics: Carmela Franklin (CU)

Professor of Classics: Lydia Lenaghan

Assistant Professors of English: Paula Loscocco, Peter Platt, Timea Szell

Professor of English: Anne Prescott

Associate Professor of English: Christopher Baswell (Chair)

Assistant Professor of French: Catharine R. Coats²

Lecturer in German: Regina Ayre

Professor of History: Caroline Bynum (CU)

Assistant Professor of History: Joel Kaye, Olivia R. Constable (CU)

Assistant Professor of Italian: Antonella Ansani

Professor of Philosophy: Alan Gabbey

Assistant Professor of Religion: Kate Cooper

Professor of Religion: Robert Somerville (CU)

Professor of Spanish: Marcia Welles

¹Absent on leave Spring term

²Absent on leave Autumn term

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of Medieval or Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, literature, philosophy, romance philology, music, or religion. Each student, after consultation with the chair, chooses an adviser in her area of concentration who guides her in developing a sequence of courses to be taken in the field.

A minimum of 11 courses is required for the major in Medieval and Renaissance Studies:

Five courses in the area of concentration;

Two history courses for students not concentrating in history;

Two courses in the other disciplines mentioned above for those who are;

Two electives in areas outside the concentration, to be chosen in consultation

with the adviser; and MRS BC 3998x and MRS BC 3999y, *Directed Research*, a two-semester program of interdisciplinary research leading to the writing of the senior essay. In some cases, a senior seminar in one of the departments may be substituted for MRS BC 3998x or 3999y.

Students are required to write an interdisciplinary senior essay based on two semesters of research in their field of concentration and in another discipline, carried out under the supervision of their area adviser and another from the second discipline. The choice of topic for this senior project and the appointment of a second adviser are determined in consultation with the area adviser and the chair of the program.

In addition to the language used to fulfill the general four-semester requirement for graduation, the student must have completed two semesters of a second language (or the equivalent) relevant to her area of concentration.

No minor is offered in Medieval and Renaissance Studies.

COURSES OF INSTRUCTION

MRS BC 3998x, 3999y Directed Research for the Senior Project Two semesters of supervised interdisciplinary research in Medieval or Renaissance Studies terminating in the writing of a senior essay. The program of research is determined in consultation with the chair and under the guidance of the area adviser. It is supervised by the latter and an adviser from the second discipline involved in the project. —Staff 4 points. Hours TBA.				English ENG BC 3163x, 3164y Shakespeare —P. Platt 3 points. M W 11:00-12:15		
				English ENG BC 3165x The English Renaissance —A. Prescott 3 points. M W 1:10-2:25		H
				English ENG BC 3166x Seventeenth-Century Prose and Poetry —P. Loscocco 3 points. Tu Th 10:35-11:50		H
OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES				English ENG BC 3167y Milton —P. Loscocco 3 points. Tu Th 10:35-11:50		H
Art History ARH BC 3351x Early Christian and Early Medieval Art —J. Rosenthal 3 points. M W 2:40-3:55	III	H		English ENG BC 3169y Renaissance Drama: 1580-1642 —P. Platt 3 points. M W 2:40-3:55		H
Art History ARH BC 3352y Art of the Later Middle Ages —S. Murray 3 points. M W 2:40-3:55		H		English ENG BC 3997x 1. The Middle Ages: Images of Women —T. Szell 4 points. W 4:10-6:00		
Art History ARH V 3400x Italian Renaissance Painting I —J. Beck 3 points. Hours TBA.		H		2. Wit and Humor in the Renaissance —A. Prescott 4 points. M 2:10-4:00		H
Latin LAT V 3033x Medieval Literature —C. Franklin 3 points. M W 9:10-10:25		H		English ENG BC 3998y 1. Women in the English Renaissance —P. Loscocco 4 points. Th 2:10-4:00		H
Latin LAT W 4152y Medieval Latin Literature: Prose —C. Franklin 3 points. M W 9:10-10:25		H		French FRE BC 3032y Humanism and Reformation —C. Coats 3 points. Tu Th 10:35-11:50		H
English ENG BC 3154x The Early Chaucer. —C. Baswell 3 points. Tu Th 9:10-10:25		H		German GER BC 3047y The Golden Age of German Medieval Literature —R. Ayre 3 points. Tu Th 2:20-3:55	III	H
English ENG BC 3155y Chaucer <i>The Canterbury Tales.</i> —T. Szell 3 points. Tu Th 4:10-5:25		H		History HIS BC 1004x Introduction to Later Middle Ages: 1050-1450 —J. Kaye 3 points. Tu Th 10:35-11:50		S
English ENG BC 3158y Medieval Literature —C. Baswell 3 points. Tu Th 9:10-10:25		H				

—J. Kaye
4 points. W 2:10-4:00 S

—R. Somerville
3 points. M W 4:10-5:25 S

—O. Constable
4 points. M 11:00-12:50 S

—A. Ansani
3 points. Tu Th 10:35-11:50 S

—J. A. Cavallo
3 points. M W 11:00-12:15. S

—A. Ansani
4 points. Tu Th 10:35-11:50 S

—T. Barolini
3 points. Tu Th 2:40-3:55 H

—C. Mercer
3 points. Tu Th 10:35-11:50 H

—A. Gabbey
Prerequisite: One philosophy course or permission of
the instructor.
3 points. Tu Th 1:10-2:25 H

—A. Gabbey
3 points. M W 11:00-12:15 III H

—M. Stoller
3 points. M W 1:10-2:25 H

—K. Cooper
4 points. Tu 10:00-11:50 H

—M. Welles
3 points. M W 1:10-2:25 H

—M. Welles
3 points. Tu Th 1:10-2:25 H

—M. Welles
3 points. Tu Th 1:10-2:25 H

Barnard Office: 328C Milbank Hall
Columbia Department of Music: 703 Dodge

Telephone: 854-5096
854-3825

Professor: Hubert Doris (Chair)¹

Lecturer: Gail Archer

Other officers of the University offering courses listed below:

Professors: Ian Bent, Dieter Christensen², George Edwards, Jonathan Kramer¹, Fred Lerdahl, Leeman L. Perkins

Associate Professors: Joseph Dubiel, Walter Frisch, Brad Garton, David Rakowski¹, Elaine Sisman, Mark Tucker

Assistant Professors: Mark De Bellis, Daniel Ferguson, Cynthia Gessele, Thomas Payne

Instructor: Luann Dragone

Director of Music Performance: George Rothman

Associates: Anahid Ajemian, Eric Bartlett, Allen Blustine, Ronald Borrer, David Braynard, Marshall Coid, Kenneth Cooper, Matthew Dine, Maureen Gallagher, Christopher Gekker, Christine Gummere, Claire Heldrich, Mark Hill, Louis Kaplan, Mindy Kaufman, Soye Kim, Anthony Korf, Linda McKnight, Morris Newman, Niels Østbye, Susan Palma, William Purvis, George Rothman, Mark Shuman, Don Sickler, Michael Skelly, George Stauffer, Lisa Terry

¹Absent on leave 1994-95

²Absent on leave Spring term.

REQUIREMENTS FOR THE MAJOR

Program of Study: to be planned with the department consultant before the end of the sophomore year. Prospective music majors should complete the prerequisites by the end of their sophomore year and are encouraged to complete them by the end of their first year. By the end of her first year as a music major she should select a faculty adviser.

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001, MUS V 1001

Fundamentals of Western Music, and MUS V 1312 *Introductory Ear-training*. Prospective music majors are advised to satisfy the prerequisites prior to their declaration as majors or before the end of their sophomore year. This requirement may be fulfilled either through successful completion of the course or satisfactory performance on examinations administered each semester by the department.

Courses: at least 38 points, including Music V 2318-V 2319 *Diatonic Harmony and Counterpoint*; V 3321-V 3322 *Chromatic Harmony and Counterpoint*; four semesters of ear-training unless exempt by exam, and any **one** of the 3000-level advanced theory electives; and any **two** of the following four history courses: V 3123 *Music of the Middle Ages and Renaissance*, V 3124 *Music of the Baroque*; V 3125 *Music of the Classical and Romantic Periods*; and V 3126 *Music of the Modern Period*. The remaining 13 points are chosen from 2000- to 4000-levels. At least one 3000-or 4000-level course must deal with non-tonal music. No more than 6 points of 2000-level courses and no more than 4 points of instrumental or vocal lessons will count toward the major.

Senior Exercise: Working with her adviser, a major must complete an original project in her senior year. Normally, it may be the expansion of a paper done in a 4000-level course (as long as it deals with primary sources), a composition, or a recital.

Keyboard Proficiency: Music majors will be required to take a keyboard proficiency exam, which must be arranged by making an appointment with a member of the piano faculty, immediately upon declaration of the major. If they do not pass the exam, they will be required to take MUS W 1517x-W 1518y, for 1 point each term, which will count against the maximum 4 points allowed toward completion of the major.

Languages: for students who plan to do graduate work in music, the study of German, French, Italian, and/or Latin is recommended.

Note: With the permission of Gail Archer, Barnard Coordinator, students may take courses or lessons at the Manhattan School of Music or the Juilliard School. For non-majors, there is a six-semester limit, but majors may continue for the remainder of their program.

Practice rooms: piano practice rooms are available, at a nominal fee, upon application to the Music Department in 703 Dodge. Application should be made during the first week of classes. Preference in assigning hours is given to students taking piano instruction, majors, and concentrators, in order of application. The organ studio in St. Paul's Chapel is available for organ practice. Arrangements should be made with the Chapel organist during the first week of classes.

REQUIREMENTS FOR THE MINOR

Courses for the minor: four terms of Theory, four terms of Ear-training, and two terms of History.

PERFORMANCE ACTIVITIES

Participation in the following activities is open to all members of the University community. Music majors are urged to join at least one of the groups. Students who wish to receive course credit may register for the courses as listed.

Columbia University Orchestra and Chamber Ensemble. George Rothman, conductor and director of the Music Performance Program. See Music V 1591x-92y and MUS V 1598-99y for the audition schedule and description of activities.

Barnard-Columbia Chorus and Chamber Singers. Gail Archer, director. See MUS V 1593x-94y and MUS V 1595x-96y for audition information and description of activities.

University Jazz Orchestra. Don Sickler, director. See MUS V 1585x-86y for audition information and description of activities.

Instrumental and Vocal Instruction. With appropriate prior approval, qualified students may take music lessons, one course per term for a maximum of six terms. The first two terms are unrestricted; during the **third and fourth** terms a student must take two courses in the history, literature, or theory of music concurrently with the music lessons. Only the Music major may take lessons every term. Written permission from the Dean is required.

Collegium Musicum. Auditions are held at the beginning of each term. The aim of the Collegium Musicum is to perform neglected and unfamiliar vocal and instrumental music. Activities are supervised by the graduate student Director, and the Collegium ususally gives two public concerts each semester.

COURSES OF INSTRUCTION

MUS BC 1001x, BC 1002y **An Introduction to Music**

Elements of musical structure designed to form intelligent listening habits, and the study of several great epochs of music, with emphasis on their style and structure. —Staff
No previous knowledge of music is required.
3 points.

Sec. 1 M W 1:10-2:25 —G. Archer

Sec. 2 Tu Th 1:10-2:25 —G. Archer

MUS V 1002x, y **Fundamentals of Western Music**

A student may place out of this course with a score of 5 on the Advanced Placement Examination or by an examination given by the Department at the beginning of the semester. The basic elements of music to be studied with the aim of developing musicianship will include: notation, dictation, sight-singing, transposition, aural recognition of the simpler forms, triad identification, cadence types, voice-leading in two parts. —Instructor TBA.

Corequisite: MUS V 1312

3 points. x: M W 9:10-10:25

H

H

MUS BC 1501x, BC 1502y

Voice Instruction

Entrance by audition only (call Department during registration for time and place of audition). One hour private lesson weekly. —Staff

1 point. Hours TBA.

Theory and Ear-Training Sequence

MUS V 2318x-V 2319y

Diatonic Harmony and Counterpoint, I and II

Principles of melodic construction, voice leading, harmony, and counterpoint in modal and tonal music. Composition of exercises and pieces in prescribed styles; close analysis of selected compositions. —M. DeBellis

Prerequisite: MUS V 1002 or the equivalent. *Corequisite, x and y:* an ear-training lab to be determined by a placement exam given at the beginning of the term.

3 points. Sec. 1 Tu Th 1:10-2:25

Sec. 2 Tu Th 9:10-10:25

MUS V 3321x-V 3322y

Chromatic Harmony and Counterpoint, I and II

Principles of chromatic voice leading and chromatic chord construction. Composition of exercises and pieces in prescribed styles; close analysis of selected compositions. —J. Dubiel

Prerequisite: MUS V 2318-19 and completion of any two semesters of ear-training, the most recent with a grade of B- or better. *Corequisite, x and y:* an ear-training lab.

3 points. Hours TBA.

Please note: For the following ear-training labs, students must take a placement test at the beginning of the term and may not register without the permission of the Ear-training Coordinator.

MUS V 1312x, y

Introductory Ear-training

Introduction to basic skills in sight reading. Instruction includes reading rhythms in simple meter, solfege recitation and sight-singing simple melodies. —Instructor TBA.

1 point. Hours TBA.

MUS V 2314x

Ear-training, I

Designed to improve the student's basic skills in sight-singing, and rhythmic and melodic dictation with an introduction to four-part harmonic dictation. —Instructor TBA.

1 point. Secs. 1, 3 M W 3:10-4:00

Secs. 2, 4 Tu Th 3:10-4:00

MUS V 2315y

Ear-training, II

Techniques of sight-singing and dictation of diatonic melodies in simple and compound meter with strong emphasis on harmonic dictation.

—Instructor TBA.

1 point. Secs. 1, 3 M W 3:10-4:00

Secs. 2, 4 Tu Th 3:10-4:00

MUS V 3316x, y

Ear-training, III

Sight-singing techniques of modulating diatonic melodies in simple, compound, or irregular meters which involve complex rhythmic patterns. Emphasis is placed on four-part harmonic dictation of modulating phrases. —Instructor TBA.

1 point. Secs. 1, 3 M W 3:10-4:00

Secs. 2, 4 Tu Th 3:10-4:00

MUS V 3317x, y

Ear-training, IV

Techniques of musicianship at the intermediate level, stressing the importance of musical nuances in sight-singing. Emphasis is placed on chromatically inflected four-part harmonic dictation.

—Instructor TBA.

1 point. Secs. 1, 3 M W 3:10-4:00

Secs. 2, 4 Tu Th 3:10-4:00

MUS W 4318x-4319y

Ear-training, V and VI

Advanced dictation, sight-singing, and musicianship, with emphasis on 20th-century music.

—L. Dragone

1 point. Tu Th 10:00-10:50

MUS V 2010y

Race, Gender and the Politics of Rock'n'Roll

A study of rock music from the perspective of issues in contemporary cultural theory, with special emphasis on political significance and diverse representations of race and gender. —Instructor TBA.

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.

3 points. Tu Th 1:10-2:25

MUS V 2016x

Jazz

The musical and cultural features of jazz, beginning in 1900. —M. Tucker

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.

3 points. M W 1:10-2:25

III H

MUS V 2020x**Salsa, Soca, and Reggae: Popular Music of the Caribbean**

A survey of the major syncretic urban popular music styles of the Caribbean, exploring their origins, development, and socio-cultural context. —Instructor TBA.

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001.

3 points. Tu Th 1:10-2:25

III

MUS V 2023x**Mozart**

The life, works and cultural milieu of Wolfgang Amadeus Mozart, with emphasis on selected symphonies, string quartets, piano concertos, and operas. —E. Sisman

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.

3 points. M W 3:10-4:00

H

MUS V 2025y**The Opera**

The development of opera from Monteverdi to the present. —C. Gessele

Prerequisite: BC 1001 or 1002 or MUS F 1001 or HUM C 1123 or the equivalent.

3 points. Tu Th 6:10-7:25

H

MUS V 2026x**The Symphony**

The symphony orchestra as a musical and social institution in the 18th through 20th centuries, and a survey of the music written for it in those periods. —L. Perkins

Prerequisite: BC 1001 or 1002 or MUS F 1001 or HUM C 1123 or the equivalent..

3 points. M W 2:40-3:55

H

MUS V 2205x, y**MIDI Music Production Techniques**

An introduction to the potential of digital synthesis by means of the MIDI (Musical Instrument Digital Interface). The goals of the course, in addition to teaching proficiency in elementary and advanced MIDI techniques, will be to challenge some of the assumptions about music built into the MIDI specifications and to foster a creative approach to using MIDI machines. — B. Garton

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.

3 points. Tu Th 1:10-2:25

MUS V 2425y**The Music of J.S. Bach**

The life and works of J.S. Bach in their musical, cultural and social milieux. —T. Payne

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.

3 points. M W 3:10-4:25

MUS V 3125x**Music of the Classical and Romantic Periods**

Western music from Haydn and Mozart to the death of Wagner. —E. Sisman

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.

3 points. Tu Th 3:10-4:25

MUS V 3126y**Music of the Modern Period**

Western music from the death of Wagner to the present. —M. Tucker

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent.

3 points. Tu Th 3:10-4:25

MUS V 3148y**Romantic Song**

Solo vocal works of Schubert, Schumann, Berlioz, Mussorgsky, Debussy, and others, viewed as transformation of poetry into song. —I. Bent

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent, and reading knowledge of music.

3 points. Hours TBA.

MUS V 3155x**Music and Revolution**

Investigation of how a change in musical style can be seen as “revolutionary” through the study of a wide variety of music in social and historical contexts. Musical examples such as Protestant hymns, music from the French Revolution, and union music from 20th-century America will be discussed with respect to stylistic simplicity and stylistic complexity, social interventions that affect musical style, and the relationship of music production and the public sphere. —C. Gessels

MUS F 1001 or the equivalent, and reading knowledge of music.

3 points. Hours TBA.

MUS V 3239x-3240y**Introduction to Composition**

Composition in the shorter forms. Basic issues of musical structure and expression are explored in traditional and contemporary repertory. —J. Dubiel

Prerequisite: MUS V 1002 or the equivalent.

3 points. F 10:00-11:50, additional hour TBA.

MUS V 3241x-V 3242y
Advanced Composition

Composition in more extended forms. Survey of advanced techniques of contemporary composition. —J. Nichols

Prerequisite: MUS V 3240y and permission of the instructor. *Corequisite:* MUS V 2008.

3 points. F 10:00-11:50, additional hour TBA.

MUS V 3244x
Tonal Composition

Training in composing in tonal styles, including: Baroque fugues; Classical minuets, variations and sonata-form movements; Romantic songs and preludes. —F. Lerdahl

Prerequisite: MUS V 3322 or the equivalent.

3 points. Hours TBA.

H

MUS V 3302y
Introduction to Set Theory

A study of the basic principles of set theory through the writings of Schoenberg, Babbitt, Forte, Martino, Lewin, et al. Concepts illustrated with examples from late 19th- and early 20th-century repertoire. —J. Dubiel

Fulfills the requirement of the 3000-level advanced theory elective. Prerequisite: MUS V 3322 and permission of the instructor.

3 points. Hours TBA.

Asian Humanities-Music AHM V 3320y
Introduction to the Musics of East Asia and Southeast Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Ferguson

3 points. M W 6:10-8:00. One hour is a listening hour.

Asian Humanities-Music AHM V 3321x
Introduction to the Musics of India and West Asia

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations. —D. Christensen

3 points. Tu Th 4:10-6:00. One hour is a listening hour.

MUS V 3330y
Advanced Counterpoint

The study of baroque counterpoint in the style of J.S. Bach; general aspects of voice-leading; dances, inventions, canons; expositions of fugues.

—J. Kramer

Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V.2310, 2311 and 2312.

3 points. Tu Th 1:10-2:25

MUS W 3360x
Pre-tonal and Tonal Analysis

Detailed in-depth analysis of selected pre-tonal and tonal compositions. —W. Frisch

Fulfills the requirements of the 3000-level advanced theory elective. Prerequisite: MUS V 3321.

3 points. Hours TBA.

MUS W 4170y
Duke Ellington

An introduction to Ellington's music from the 1920's to the early 1970's. Emphasis on works for jazz orchestra and small groups, compositional method, critical reception. —M. Tucker

Prerequisite: Reading knowledge of music will be useful. Permission of the instructor required.

3 points. Tu Th 6:10-7:25

MUS W 4510y
Music and Sound in Film

A consideration of the many contributions sound and music make to our experience of film, through analysis of individual films by Altman, Chaplin, Coppola, Fellini, Hitchcock, Kubrick, Kurosawa, Wells, Wenders. This inquiry is supported by readings from theoretical and critical writing on sound, on film and on film sound. Students will attend screenings of one full-length film per week, outside of regular class hours. —A. Warren

Prerequisite: BC 1001 or 1002 or HUM C 1123 or MUS F 1001 or the equivalent, or the permission of the instructor.

3 points. Tu Th 1:10-3:00

MUS W 4700x
Post-modernism in Music

A study of American and European art music since 1968, focussing on a reaction against integral serialism, and on the concern for audibility and comprehensibility, the return of harmony and melody. Parallels with post-modernism in art and architecture will be explored. —I. Bent

Prerequisite: Evidence of previous musical study.

3 points. Hours TBA.

PERFORMANCE ACTIVITIES AND INSTRUMENTAL INSTRUCTION

MUS V 1585x-V 1586y
University Jazz Orchestra

The University Jazz Orchestra performs classics and contemporary big band repertoire at a concert at the end of each term. —D. Sickler

Audition required. Those auditioning should apply to Box 12, Ferris Booth Hall (Telephone: 854-4966).

May be taken for Pass/Fail credit only.

1 point. Hours TBA.

MUS V 1591x-V 1592y**University Orchestra and Chamber Music**

An audition to be held during registration period, by appointment at 703 Dodge Hall (x43825). Students should bring two short works, or movements of longer works, of different stylistic periods; they will also be asked to read brief orchestral or chamber music excerpts at sight. The orchestra performs throughout the academic year in works spanning all periods of music including contemporary compositions. Distinguished guest soloists sometimes perform with the orchestra, and qualified student soloists may also have the opportunity to either perform or read concertos with the orchestra. Staff positions: a few persons interested in managerial work may gain experience as orchestra librarian and personnel manager. Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester. —G. Rothman and Staff

1 point. May be taken for Pass/Fail credit only.

M 6:00-8:30 and additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-V 1594y**Barnard-Columbia Chorus**

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester. Open to all men and women in the University community. Several public concerts are given each season both on and off campus, often with other performing organizations. Sight-singing sessions offered. Repertory includes works from all periods of music literature. —G. Archer
Audition required. Pass/Fail credit only.

1 point. Tu Th 6:00-8:00

MUS V 1595x-V 1596y**Barnard-Columbia Chamber Singers**

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages. —G. Archer

Audition required. Pass/Fail credit only.

1 point. Tu Th 8:00-9:30

MUS V 1598x-1599y**Chamber Ensemble and Chamber Orchestra**

Students registering for chamber music receive ensemble training with the performance associates listed for MUS W 1525-W 1526. Student cham-

ber ensembles perform a recital at the conclusion of each semester and are given other opportunities to perform throughout the academic year.

—George Rothman and Staff

May be taken for Pass/Fail credit only.

1 point. Hours TBA.

Please note: In the instrumental lessons listed below all offered on a weekly, individual basis, a course of half-hour lessons earns 1 point of credit, and a course of one-hour lessons earns 2 points of credit.

MUS W 1500x-W 1501y**Early Instruments**

Audition required. Those auditioning should apply to the Department of Music, 703 Dodge Hall, (Telephone: x43825).

1 or 2 points. Hours TBA with instructor.

Sec. 1: Keyboards —K. Cooper

Sec. 2: String —L. Terry

Sec. 3: Wind Instruments —M. Newman

MUS W 1509x-W 1510y**Organ Instruction**

—G. Stauffer

Permission of the instructor required.

1 or 2 points. Hours TBA with instructor.

MUS W 1513x-W 1514y**Introduction to Piano**

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 point. Hours TBA with instructor.

MUS W 1515x-W 1516y**Elementary Piano Instruction**

Prerequisite: W 1513-1514 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 or 2 points. Hours TBA with instructor.

MUS W 1517x-W 1518y**Keyboard Harmony and Musicianship**

One half-hour private lesson weekly. Lessons emphasize the progressive development of a harmonic vocabulary representative of the techniques of the central tradition of 18th- and 19th-century music.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 point. Hours TBA with instructor.

MUS W 2515x-W 2516y**Intermediate Piano Instruction**

Prerequisite: W 1515-1516 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye Sec. 2: —M. Skelly

1 or 2 points. Hours TBA with instructor.

MUSIC

MUS W 3515x-W 3516y **Advanced Piano Instruction**

Prerequisite: W 2515-2516 or the equivalent and permission of the instructor.

Sec. 1: —N. Østbye *Sec. 2:* —M. Skelly
2 points. Hours TBA with instructor.

MUS W 1525x-W 1526y **Instrumental Instruction**

See Columbia College Catalogue for section information. Students participating in the orchestra are given precedence when applying for private instrumental instruction.

Prerequisite: Audition (see under University Orchestra).
1 or 2 points. Hours TBA with instructor.

FLUTE: M. Kaufman, S. Palma; OBOE: M. Hill, M. Dine; CLARINET: A. Blustine, A. Kay; BASSOON: M. Newman; FRENCH HORN: W. Purvis; TRUMPET: C. Gekker; TROMBONE: R. Borrer; TUBA: D. Braynard; DRUMS AND PERCUSSION: C. Heldrich, A. Korf; VIOLIN: A. Ajemian, M. Coid, L. Kaplan, S. Kim, L. Goldberg; VIOLA: S. Adams, M. Gallagher; VIOLONCELLO: E. Bartlett, C. Gummere, M. Shuman; STRING BASS: L. McKnight, TBA.

This program is supervised by the Committee on Pan-African Studies:

Visiting Associate Professor of French: Kandioura Dramé (Acting Director)

Assistant Professor of Economics: Cecilia Conrad

Assistant Professor of Political Science: J. Phillip Thompson

Assistant Professor of Religion: Judith Weisenfeld¹

Lecturer in Political Science: Leslie J. Calman

Dean of the College: Dorothy S. Denburg

¹Absent on leave 1994-95.

The Pan-African Studies major is designed to provide students with a comparative perspective in their approach to the study of the history, politics, and cultures of peoples of African origin in Africa and the African diaspora. The major is multi-disciplinary and differs from African Studies, Caribbean Studies and African-American Studies in that it encompasses the African influences in the experiences of peoples of African descent throughout the world.

REQUIREMENTS FOR THE MAJOR

- I. Two semester sequence of introductory courses on African and African diaspora studies (preferably to be taken before the junior year).

AAS C 1001x	<i>Introduction to African-American Studies</i>
PAS BC 3001x	<i>African Literatures and Cultures</i>

One semester - Junior Colloquium in Pan-African Studies

WMS BC 3507x	<i>Unheard Voices: African Women's Literature</i>
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- II. Each student must demonstrate proficiency in any of the languages of Africa or the Diaspora (in addition to English) by completing at least the fourth semester of that language, or its equivalent. Languages may include Swahili, Hausa, Arabic, French, Spanish, Dutch, and Portuguese.
- III. Each student will select one of the following tracks:
 - A. The Regional Track
In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan-African Studies) in one of the following geographic areas:

Africa
The Caribbean
Latin America
North America
 - B. The Divisional Track
In consultation with the adviser, and to provide coherence, the student will take four courses (from among those designated by the Committee on Pan-African Studies) either in the social sciences or in the humanities.
- IV. In addition, in consultation with the adviser, the student will take two electives (from among those courses designated by the Committee on Pan-African Studies). The total number of courses for the major is 11, exclusive of the foreign language.

NO MINOR IS OFFERED IN PAN-AFRICAN STUDIES

PAN-AFRICAN STUDIES

The following is only a sample selection of courses that may be applied to the major. Students should consult the departmental and program listings for course descriptions, prerequisites and other relevant courses.

ANT V 3038	Ethnicity and Race
ANT V 3945	Colonialism and the Family in Africa
EDU BC 2032	Contemporary Issues in Education
ENG BC 3140	Explorations of Black Literature, 1760-1890
ENG BC 3140	Writers of the Anglophone Caribbean
ENS BC 3144	Minority Women Writers in the United States
ECO BC 3029	The Economics of Underdeveloped Areas
ECO BC 3011	Poverty and Income Distribution
ECO BC 2024	Women in International Development
HIS BC 1051	Survey of American Civilization to the Civil War
HIS W 3004	African-American History Since the Civil War
HIS BC 3056	The American Civil Rights Movement
HIS W 3488	History of the South
HIS BC 3489	The Fourteenth Amendment and Its Uses
HIS W 3643	Slavery and Slave Resistance in the Americas
HIS W 3660	Harlem: A Social and Cultural History, 1890-1965
MUS V 2010	Race, Gender and the Politics of Rock 'n' Roll
MUS V 2016	Jazz
MUS V 2020	Salsa, Soca and Reggae: Popular Music of the Caribbean
POS W 3320	Contemporary Black Politics
POS W 3245	Race and Ethnicity in American Politics
PSY BC 2370	Psychological Analysis of Racism
PSY BC 3379	Psychology of Stereotyping and Prejudice
REL V 3803	African-Based Religions of the Caribbean
REL V 3803	Racial Politics of American Religion
SOC V 3235	Social Movements

Professors: Alan Gabbey (Chair), Sue Howard Larson

Assistant Professors: Taylor Carman, Noa Latham³, Robert Myers

Adjunct Associate Professor: John Arras

Lecturers: Eric Katz (Environmental Science), John Lad

Other officers of the University offering courses in Philosophy:

Professors: Bernard Berofsky, Haim Gaifman², Richard F. Kuhns, Jr., Charles Larmore, Isaac Levi, Thomas Pogge, David Sidorsky

Associate Professors: David Albert², Akeel Bilgrami, Shaughan Lavine

Assistant Professors: John Collins, Bonnie Kent¹, Wolfgang Mann, Christia Mercer

Adjunct Assistant Professors: Michael Kelly, Cheryl Mendelsohn

¹Absent on leave 1994-95

²Absent on leave Autumn Term

³Absent on leave Spring Term

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, philosophy of science, logic, and the history of philosophy. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in techniques of conceptual analysis, argument, and the interpretation of texts.

Although not required for the major, students who have not had previous training in philosophy are advised to take either Philosophy BC 1001, *Introduction to Philosophy: Problems and Concepts*, or Philosophy BC 1002, *Introduction to Philosophy: Styles and Systems*. (Credit for the major will not be given for both courses.)

REQUIREMENTS FOR THE MAJOR

I. A major in Philosophy consists of at least 10 courses, made up as follows:

1. One course on ancient or early medieval philosophy:

PHI V 1101 *The History of Philosophy: Pre-Socratics through Augustine*

PHI V 3121 *Plato*

PHI V 3131 *Aristotle*

2. One course on medieval or early modern philosophy:

PHI V 1201 *The History of Philosophy: Aquinas through Kant*

PHI V 3230 *Seventeenth-Century Philosophy: Bacon to Locke*

PHI V 3250 *Eighteenth-Century Philosophy: Locke to Kant*

3. One course in logic: PHI V 3411 *Introduction to Symbolic Logic*

4. One course in moral philosophy: PHI V 3701 *Moral Philosophy*

5. One of the following courses:

PHI BC 3483 *Theory of Meaning*

PHI V 3501 *Theory of Knowledge*

PHI W 3601 *Metaphysics*

6-7. Two semesters of the Majors' seminar: BC 3288, BC 3289.

8-10. Three electives.

PHILOSOPHY

The sequence of courses for the major is to be determined in consultation with the major adviser. The Majors' Seminar (PHI BC 3288x, BC 3289y) may be taken either in the senior year or beginning in the second semester of the junior year. The topic for the seminar is set each semester on the basis of consultation between the instructor and the students. No topic of the Majors' Seminar may be taken more than once.

Students who wish to complete a double or joint major including philosophy should consult the Department Chair as early in their planning as possible.

Senior Essay

All students majoring in Philosophy are required to submit a substantial essay on a topic approved by the department. The essay is to be researched and written during the senior year, and will be prepared normally for the Majors' Seminar (PHI BC 3288x, 3289y). Alternatively it may be chosen as the project of the elective Independent Study (PHI BC 3398x, 3399y). Performance in the Senior Essay will be included in determining Departmental Honors.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

Limited Enrollment Courses

First-day attendance required. Instructor will determine and post class list. Prerequisites: one philosophy course or permission of the instructor unless otherwise specified.

COURSES OF INSTRUCTION

PHI BC 1001x, y
Introduction to Philosophy: Problems & Concepts
Interpretation and analysis of major topics in ethics, metaphysics, and theory of knowledge. Readings from historical and contemporary sources, primarily within the Western tradition. —Staff
Limited enrollment. No prerequisites.
3 points. III H
x: Sec. 1 M W 11:00-12:15 —R. Myers
Sec. 2 Tu Th 10:35-11:50 —N. Latham
Sec. 3 Tu Th 1:10-2:25 —N. Latham
y: Sec. 1 M W 11:00-12:15 —Instructor TBA.
Sec. 2 M W 1:10-2:25 —T. Carman
Sec. 3 Tu Th 10:35-11:50 —T. Carman

PHI BC 1002x, y
Introduction to Philosophy: Styles and Systems
Examination of different conceptions of philosophy, its questions and its methods, as they arise in different historical and cultural contexts, both Western and non-Western. —J. Lad.
Limited enrollment. No prerequisites.
3 points. x: M W 1:10-2:25
y: Tu Th 1:10-2:25 I H

PHI V 1101x
The History of Philosophy: I
Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine. —W. Mann
3 points. Tu Th 10:35-11:50 III H

PHI W 1201y
The History of Philosophy: II
Exposition and analysis of the positions of the major philosophers from Aquinas through Kant. —C. Mercer
3 points. Tu Th 10:35-11:50 III H

PHI V 3121
Plato
3 points. Not offered in 1994-95. III H

PHI V 3131x
Aristotle
3 points. Not offered in 1994-95. III H

PHI BC 3147y
Philosophical Issues of Feminist Theory
Philosophical study of some recent feminist texts together with the appropriate philosophical texts. —S. Larson
3 points. M W 1:10-2:25. I H

PHI V 3161

Greek Philosophy

3 points. Not offered in 1994-95. III H

PHI V 3230x

Seventeenth-Century Philosophy

Selected doctrines and issues attending "the Birth of Modern Philosophy." Skepticism; empiricism and rationalism; faith and reason; perception; metaphysics; methodology; spirit and matter; moral and civic philosophy; philosophy and science. Principal thinkers are normally selected from: Bacon, Hobbes, Gassendi, Descartes, Pascal, Spinoza, Leibniz, Malebranche, the Cambridge Platonists, Anne Conway, Locke. —A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 1:10-2:25 III H

PHI V 3232x

Renaissance Philosophy

A study of philosophical doctrines and issues that were characteristic of different times and different parts of Europe during the period from Petrarch (14th century) to Francis Bacon (early 17th century). The doctrines and issues are considered in relation to institutional, religious and scientific developments. —A. Gabbey
Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15 III H

PHI V 3250y

Eighteenth-Century Philosophy

Selected doctrines and issues in "The Age of Reason." Ideas and perception; reason and the passions; knowledge and belief; spirit and matter; deism and atheism; philosophy and science; rationalism and empiricism. Principal thinkers are normally selected from: Locke, Bayle, Leibniz, Newton, Berkeley, Hutcheson, Hume, Reid, the French and German Enlightenments, Kant. —T. Carman
Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15 III H

PHI V 3251

Kant

3 points. Not offered in 1994-95. III H

PHI V 3270x

**Nineteenth-Century Philosophy:
Hegel to Nietzsche**

A survey of German idealism and its critics. Topics include the nature of self-consciousness, the idea of progress in history, and the character of modern ethical and religious life. Principal

thinkers are normally selected from: Fichte, Hegel, Schopenhauer, Marx, Kierkegaard, and Nietzsche. —T. Carman

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 9:10-10:25 III H

PHI V 3301x

Twentieth-Century Philosophy

Four major philosophical movements — pragmatism, logical positivism, existentialism, and linguistic analysis — are examined in their cultural context. Discussion of the works of the more recent post-modernist philosophers as critics of these movements. Readings selected from James, Bergson, Moore, Russell, Carnap, Wittgenstein, Austin, Husserl, Heidegger, Sartre, Foucault, Derrida, and Deleuze. —T. Carman
Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55 III H

PHI V 3352y

Recent European Philosophy

Themes from the writings of Kant, Nietzsche, and Heidegger, and their treatment by later thinkers such as Gadamer, Derrida, Foucault, and Habermas. Special attention will be given throughout to Foucault and his critics. —M. Kelly

3 points. M W 4:10-5:25 III H

PHI BC 3364x

Wittgenstein

Wittgenstein's views in relation to Frege and Russell. Discussion of the central problems in his books, e.g., logical form, truth, rule-following, privacy, certainty, and psychological concepts. —S. Larson

3 points. Tu Th 2:40-3:55 III H

PHI V 3380

Habermas

3 points. Not offered in 1994-95. III H

PHI V 3411x, y

Introduction to Symbolic Logic

Sentential and first-order logic, the significance of a formal system and its use for analysis of meaning and language. Technical exercises are combined with analysis and parsing of English texts. There will be a weekly required discussion section in addition to lectures. —x: S. Lavine, y: H. Gaifman
4 points. x: Tu Th 1:10-2:25

y: M W 11:00-12:15 H

PHILOSOPHY

PHI BC 3483y

Theory of Meaning

Considerations of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Austin, Davidson, and others. —S. Larson
Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55

III H

PHI V 3501y

Theory of Knowledge

Contemporary issues in the theory of knowledge, and their historical sources. —I. Levi
Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55

III H

PHI W 3551y

Philosophy of Science

A careful but informal description of the physical theories of Galileo, Newton and Einstein. These concrete examples of scientific theories serve as the background for the discussion of the aims of scientific inquiry and the criteria used for appraising success in realizing these aims. —D. Albert

3 points. Tu Th 2:40-3:55

H

PHI V 3574

The Scientific Revolution

3 points. Not offered in 1994-95.

III H

PHI C 3576

Physics and Philosophy

3 points. Not offered in 1994-95.

H

PHI V 3601

Metaphysics

3 points. Not offered in 1994-95.

III H

PHI V 3610

Metaphysics of Logical Atomism and the Tractatus

3 points. Not offered in 1994-95.

III H

PHI BC 3651x

Philosophy of Mind

Examination of the place of mind in the physical world. The relation of mental states to behavior and neurophysiology; problems concerning consciousness and subjectivity. —S. Larson

3 points. M W 1:10-2:25

III H

PHI V 3657

Philosophical Idealism and Psychoanalytic Theory

3 points. Not offered in 1994-95.

III H

PHI V 3680

Attitude, Action and Reason

3 points. Not offered in 1994-95.

III H

PHI V 3690x

Action, Emotion and Rationality

An examination of the roles of value and rationality in emotion and action, with emphasis on the topics of free will, self-deception, wishful thinking, weakness of will, and such emotions as anger, pride, shame, and guilt. Readings will be drawn from Plato, Aristotle, Hume, Freud, Sartre, Davidson, and other contemporary authors. —N. Latham

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15

III H

PHI V 3701x, y

Moral Philosophy

Introduction to the central problems of moral philosophy: alternative moral ideals and their philosophical formulations; the status and justification of moral judgments; reasons for action; individual rights and social justice.

—x: R. Myers, y: D. Sidorsky

Prerequisite: One philosophy course or permission of the instructor.

3 points. x: M W 2:40-3:55

y: M W 4:10-5:25

III H

PHI BC 3716y

Topics in Moral Philosophy

Some historical sources and recent criticisms of consequentialism, the idea that the rightness or wrongness of an action is simply a function of the value of its consequences. Readings from Hume, Mill, Williams, Scheffler, Rawls, and Scanlon. —R. Myers

Prerequisite: Moral Philosophy V 3701 or permission of the instructor.

3 points. M W 1:10-2:25

III H

PHI BC 3720x

Ethics and Medicine

Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans; justice and access to health care; human genetics. —J. Arras

Limited enrollment by permission of the instructor. First-day attendance required.

3 points. Tu 2:30-5:30

H

PHI BC 3751
Social and Political Philosophy
3 points. Not offered in 1994-95. III H

PHI V 3758y
Philosophy of Education
Drawing on classical and contemporary sources, discussion will focus on the conditions necessary to produce free and responsible citizens of a just and democratic society. Readings from Plato, Rousseau, Dewey, and others. —R. Myers
No prerequisites.
3 points. Tu Th 1:10-2:25 III H

PHI V 3780y
Philosophy of Law
3 points. Not offered in 1994-95. III H

PHI V 3786y
Free Will and Responsibility
New and traditional approaches to the question of the existence and nature of human freedom. Special attention to the impact on theories of freedom of metaphysical positions such as determinism, and views about the nature of moral responsibility. Legal responsibility and theories of punishment are also discussed. —B. Berofsky
3 points. M W 11:00-12:15 III H

PHI V 3801y
Aesthetics
Open to students in philosophy, the various literary disciplines, and art history. Expression theories of art (Hegel, Nietzsche, Croce, Freud); the meaning of “modern” (Kant and Heidegger); imitation theories of art (Plato and Aristotle). Contemporary theories of criticism. —R. Kuhns
Limited to 35 students.
3 points. Tu Th 2:40-3:55 III H

PHI V 3803
The Concept of Beauty
3 points. Not offered in 1994-95. III H

PHI V 3850
Concept of Literature
3 points. Not offered in 1994-95. H

PHI V 3881x
The Idea of God
3 points. Not offered in 1994-95. III H

PHI V 3925
Skepticism
3 points. Not offered in 1994-95. III H

PHI BC 3288x, 3289y
Majors’ Seminar
An intensive study in each semester of a selected author, text or issue.
3 points, or 4 points (Senior Essay included).
x: W 4:00-6:00 —S. Larson
y: W 4:00-6:00 —R. Myers H

PHI BC 3398x, 3399y
Independent Study
Open to students who wish to pursue a project on an individual basis. The study consists in a combination of readings and papers under the direction of an appropriate instructor, or may consist in the preparation and writing of the Senior Essay. The project and enrollment for the course are both subject to departmental approval.
1-3 points. Senior Essay option: 1 point H

ESP BC 3025y
Ethics and the Environment
Philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory. —E. Katz
No prerequisites.
3 points. Tu Th 2:40-3:55 H

COURSES OFFERED AT REID HALL IN PARIS
The following course is offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Philosophy H 3550x, y
Aspects of Contemporary French Thought
An overview of recent developments in French Philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought, including some necessary background material (Descartes, Spinoza, Nietzsche). Readings include texts by Freud, Sartre, Foucault, Deleuze, Derrida, Barthes, de Beauvoir, Conche, Debord, and Lacan. —L. Laveggi
Recommended preparation: an introductory course in philosophy.
3 points. III H

Senior Associates: Sharon Everson (Chair), Jean Follansbee¹

Lecturer: Molly Wynne

Associates: Kristina Dhondt, Priscilla Gilmore, Wendy Marks, Laura Masone

¹Absent on leave 1994-95.

DEGREE REQUIREMENT

Students admitted as first year students must complete two semesters of Physical Education at Barnard. One semester must be passed in the first year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass/fail based on attendance and participation.

Health Status: Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of the Director of Health Services.

Curriculum: The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals: The Physical Education Department offers an extensive intramural program which features basketball, indoor soccer, and volleyball. The program emphasizes participation in a friendly, competitive atmosphere; activities are open to all members of the college community. For more information contact the Director of Intramurals, 206 Barnard Hall, or call 854-6940.

Recreation: Recreational use of the gymnasium, swimming pool, track, and weight room is available at specified times. All students, faculty, and staff are encouraged to use the facilities.

Intercollegiate Athletics: The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition students are eligible to qualify for state, regional and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact Merry Ormsby, Associate Director of Athletics, Columbia-Dodge Fitness Center, 854-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration: Registration for the term takes place in the gymnasium at the beginning of each semester. After confirming registration with the Physical Education Department, students should include the Physical Education course by number, section, title, and I.D. number on final programs filed with the Registrar.

Cross Registration: An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in selected Columbia courses. Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course. Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. Other Columbia University students must receive permission from the Physical Education Department to register before filing their final program with the Registrar.

Courses: Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning, Advanced Beginning, Intermediate.

COURSES OF INSTRUCTION

PED BC 1101x, y

Lifetime Fitness and Wellness

Introduction to the fundamental principles of wellness and physical activity including physical fitness, health, and wellness assessments. Topics include practical concerns for self-management within an active lifestyle and disease prevention.

AQUATIC COURSES

PED BC 1120x, y

Beginning Swimming

Development of confidence and safety skills in the water. Introduction of front crawl, elementary backstroke and deep water skills. No previous experience required.

PED BC 1121x, y

Advanced Beginning Swimming

Review of safety skills, front crawl and elementary backstroke. Further development of deep water skills. Introduction of breaststroke.

PED BC 3125x, y

Lap Swim

Students determine an individual training program with the instructor on a contract basis.

Completion of one physical education course required. Swimming fitness test for class admission given prior to first class meeting.

PED BC 3129y

Water Safety Instructor Course

Review of swimming skills and instruction in teaching techniques for preschool through swimmer courses and elementary forms of rescue; leads to American Red Cross certification.

Successful completion of PED BC3131x or equivalent American Red Cross certification. Swimming test for class admission given prior to first class meeting.

PED BC 3131x

Lifeguard Training and First Aid

Pool management, preventive lifeguarding, swimming and equipment rescues; leads to two American Red Cross certifications.

Swimming test for class admission given prior to first class meeting.

PED BC 3132y

Lifeguard Training Instructor

Review of lifeguard training skills and instruction in teaching techniques; leads to American Red Cross certification.

Current CPR, First Aid and Lifeguard Training certificates required.

SPORTS COURSES

PED BC 1350x, y

Archery

Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 3898x, y

Varsity Team-Archery

Practice and intercollegiate competition in Indoor Target Archery.

Permission of coach required. For other varsity teams. See Columbia course offerings.

PED BC 1353x, y

Badminton

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

PED BC 1357x, y

Beginning Bowling

Basic techniques of spot bowling and spare conversion; scoring and game play.

PHYSICAL EDUCATION

PED BC 1360x, y **Beginning Fencing**

Basic offensive and defensive foil techniques; footwork; rules and officiating.

PED BC 1362x, y **Golf**

Introduction to the game of golf through a variety of indoor drills to develop all facets of the game; includes proper club selection, effective swing techniques and the "long and short" game.

PED BC 1364x, y **Beginning Tennis**

Fundamentals of forehand, backhand and serve. Introduction to rules, scoring and etiquette.

PED BC 1365x, y **Advanced Beginning Tennis**

Refinement of forehand, backhand, and serve. Further instruction in scoring, rules, tactics, and etiquette. Introduction of the volley and doubles play. *Completion of Beginning Tennis or permission of the instructor is required.*

PED BC 1470x, y **Volleyball**

Introduction of forearm pass, overhead pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

FITNESS COURSES

PED BC 1580x, y **Body Sculpting**

Introduction to strength and endurance exercises to develop muscle definition for the upper and lower body. Emphasis on correct body placement. Stretching exercises included.

PED BC 1582x, y **Aerobics**

Combination low/moderate impact cardio-vascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1359x, y **Self-Paced Cycling**

Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis. *Completion of one physical education course required. Cycling test for class admission given prior to first class meeting.*

PED BC 1583x, y **Beginning Fitness**

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardiovascular efficiency.

PED BC 1584y **Advanced Beginning Fitness**

Continuation of beginning fitness; designed for the individual at a medium level of fitness.

PED BC 1585x, y **Beginning Weight Training**

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs with an emphasis on lifetime fitness.

PED BC 1586y **Advanced Beginning Weight Training**

Continuation of beginning weight training; emphasis on free weights and individualized training.

Completion of Beginning Weight Training or permission of the instructor required.

SPECIAL COURSES

PED BC 1690x, y **Beginning Self-Defense**

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

PED BC 1693x, y **Beginning Yoga**

Basic Hatha yoga positions; body awareness; relaxation; breathing exercises.

PED BC 2799x, y **Independent Study**

Enrollment in a course of instruction.

Not open to first-year or transfer students. Approval of Department required. Limited to one semester of credit.

DANCE

See Dance Department (page 118) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement. Dance courses taken to fulfill the Physical Education requirement do not carry academic credit.

Courses offered are:

Ballet:	Beginning Low Intermediate, Intermediate, Advanced.
Jazz:	Low Intermediate, Intermediate.
Modern:	Beginning, Low Intermediate, Intermediate.
Tap:	Beginning, Intermediate.

Professor: Richard Friedberg (Chair)

Associate Professor: Timothy Halpin-Healy

Assistant Professors: Laura Kay, Sally Koutsoliotas

Other officers of the University offering courses listed below:

Professors: David Helfand, Wonyong Lee, Mal Ruderman, Melvin Schwartz, Frank Sciulli, Jacob Shaham, Ed Spiegel

Associate Professors: James Applegate, Elena Aprile, Joseph Patterson, William Zajc

Assistant Professors: Arlin Crotts, Philip Kaaret, Ki Myon Lee, Michael Rich, Steven Ritz, Peter Rowson

¹Absent on leave Spring term.

From Aristotle's *Physics* to Newton's *Principia*, the term "physics," taken literally from the Greek φυσικς = Nature, implied natural science in its very broadest sense. Physicists were, in essence, natural philosophers, seeking knowledge of the observable phenomenal world. Astronomy, a sibling science to physics, concentrated specifically on the study of natural phenomena in the heavens with the intent to understand the constitution, relative positions, and motions of the celestial bodies in our universe. Though practitioners of these disciplines have become somewhat more specialized in the past century, the spirit that guides them in their research remains the same as it was more than two millennia ago.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum in both physics and astronomy. The faculty represents a wide range of expertise, with special strength and distinction in theoretical physics, condensed matter physics, nuclear physics, and observational astronomy.

Separate majors in physics and astronomy are offered. Furthermore, there are many special interdisciplinary majors possible, such as biophysics, chemical physics, engineering physics, and mathematical physics. There is a physics minor as well. Students should consult members of the department early on in their undergraduate careers in order to plan the most effective course of study.

A major examination is required for both astronomy and physics; there is no senior essay required for either. Qualified seniors are invited to participate in the seniors honors program, in which they carry out a year-long research project leading to the thesis.

The department offers several quite distinct introductory sequences in physics, only one of which may be taken for credit, including:

1. PHY C 1001-2, *General Physics*, is a two-semester introduction to physics intended for liberal arts students, taught on the Columbia campus. It satisfies the Barnard Lab Science requirement if taken concurrently with the laboratory PHY BC 1091-2 given at Barnard. It does not fulfill the premedical requirement or the physics requirement for any major.
2. PHY V 1201-2 *General Physics* (formerly V 1003-4) is satisfactory preparation for medical school and is appropriate for most non-science major pre-medical students. This course, devoted to algebra-based physics, is taught at Columbia in a large lecture hall setting. It is not recommended as a foundation for more advanced work in the field.
3. PHY BC 1206-8, *Physics I, II, III*, is Barnard's own three-semester, calculus-based introductory sequence in physics. Characterized by modest class sizes, the sequence is designed specifically for Barnard women with a serious interest in any of the natural sciences or mathematics. This sequence satisfies the physics requirements for students majoring in a science other than physics. It is especially appropriate for majors in chemistry or biochemistry, whether pre-medical or not. Biology majors with some cal-

culus background are also encouraged to take this sequence. Finally, Barnard women contemplating a major in physics or astronomy should take PHY BC 1206-7 in their first year if possible, or in their second at the latest, to be followed by the third-semester course, *Waves and Optics*. (Consult members of the department for up-to-date numbering of this course.)

4. First-year students with exceptional aptitude for physics (as evidenced, for example, by scores of 4 or 5 on the advanced placement C exam) and a good mathematical background may be admitted into the Columbia-taught two-semester sequence, PHY C 1801-02, *General Physics* (formerly 1021-22), which replaces all three terms of the sequence for majors. Students inclined toward this sequence are strongly encouraged to consult a Barnard faculty member at the start of the term.

Students unsure about the most appropriate sequence should consult members of the department.

The following courses may be substituted for each other:

- PHY BC 1206, and C 1601 with W 1691
- PHY BC 1207, and C 1602 with W 1692
- PHY BC 1208, and C 1603 with W 1693
- AST V 1753-4 and C 1403-4

There is a laboratory fee of \$25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE ASTRONOMY MAJOR

The courses required for the major in astronomy are:

- | | |
|-------------|--|
| PHY BC 1206 | <i>Physics I: Mechanics</i> |
| PHY BC 1207 | <i>Physics II: Electricity & Magnetism</i> |
| PHY BC 1208 | <i>Physics III: Waves and Optics</i> |

Students may substitute a Columbia College three-semester calculus-based introductory physics sequence with lab, as in the physics major.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended.

Also:

- AST C 1203, 1204 *Introduction to Astrophysics I, II*

Students who have taken AST V 1753-4 (*Introduction to Astronomy I, II*) or

C 1403-4 may substitute an additional 3000-level AST course for AST C 1203-4.

Finally, students are required to take four 3000-level AST or PHY courses, including at least one of AST C 3102 or PHY W 3003 *Mechanics*, and selected so that at least six total points of 3000-level lecture classes are AST courses. Some of the AST courses offered in recent years include:

- | | |
|------------|---|
| AST C 3101 | <i>Stellar Structure and Evolution</i> |
| AST C 3102 | <i>Planetary Dynamics and Physics of the Solar System</i> |
| AST C 3103 | <i>Galaxies and the Interstellar Medium</i> |
| AST C 3104 | <i>Cosmology</i> |
| AST C 3302 | <i>General Relativity, Cosmology, and Black Holes</i> |
| AST C 3461 | <i>Order and Disorder</i> |
| AST C 3646 | <i>Observational Astronomy</i> |

Students planning to study astronomy or astrophysics in graduate school are strongly urged to take PHY W 3003, 3007-8, 3021-22, some additional courses in mathematics and Computer Science W 1005 *Fortran Programming*. Note: When any of the required courses is not being given, the Department will recommend appropriate substitutions.

REQUIREMENTS FOR THE PHYSICS MAJOR

The courses required for the major in physics are:

PHY BC 1206	<i>Physics I: Mechanics</i>
PHY BC 1207	<i>Physics II: Electricity & Magnetism</i>
PHY BC 1208	<i>Physics III: Waves and Optics</i>

In lieu of the above, any three-semester Columbia introductory sequence acceptable for the physics major in Columbia College will do (e.g., PHY C 1601-3 taken with PHY W 1691-3. The accelerated two-semester Columbia College sequence PHY C 1801-2 is also acceptable.

Calculus through IIIS/IVA is required, with additional work in mathematics recommended. Ideally, this preliminary coursework would be completed by the end of the sophomore year.

At the upper level:

PHY W 3003	<i>Mechanics</i>
PHY W 3021	<i>Quantum Physics</i>
PHY W 3022	<i>Statistical Physics</i>
PHY W 3007	<i>Electricity and Magnetism</i>
PHY W 3008	<i>Electromagnetic Waves and Optics</i>

are required as are 4.5 points total of advanced lab work via PHY W 3082/W 3081. Finally, the student must take Computer Science W 1005 *Fortran Programming* or PHY W 3083 *Electronics Laboratory*.

Students planning to study physics in graduate school should try to include PHY G 4003 *Lagrangian Mechanics* and PHY G 4021 *Quantum Mechanics* in their senior year program.

Note: When any of the required courses is not being given, the Department will recommend appropriate substitutions.

INTERDISCIPLINARY MAJORS

Special majors in, for example, biophysics, chemical physics, engineering physics, or mathematical physics, are all possible and are arranged in conjunction with the relevant second department at Barnard. A student interested in such possibilities should speak to a faculty member early on (i.e., by late fall of her sophomore year) in order to permit the most effective construction of her program of study and the appropriate petition to be made to the Committee on Programs and Academic Standing. The latter is a straightforward procedure associated with the declaration of all special majors at Barnard.

REQUIREMENTS FOR THE PHYSICS MINOR

Five courses are required for the minor in physics. They are: any three-semester introductory sequence acceptable for the major (see above); and two 3-point courses at the 3000-level. See note at end of "Physics Major."

COURSES OF INSTRUCTION

ASTRONOMY COURSES

AST V 1403x

Earth, Moon and Planets (lecture)

The overall architecture of the solar system. Motions of the celestial sphere. Time and the calendar. Life in the solar system and beyond. —A. Crotts

Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: a working knowledge of high school algebra.

3 points. Tu Th 1:10-2:25

AST V 1404y

Beyond the Solar System

Distances to, and fundamental properties of, nearby stars; nucleosynthesis and stellar evolution; novae and supernovae; galaxies; the structure of the universe and theories concerning its origin, evolution, and ultimate fate. —D. Helfand

Open to any student offering astronomy in partial fulfillment of the science requirement. Recommended preparation: a working knowledge of high school algebra.

3 points. Tu Th 1:10-2:25

AST V 1420x

Galaxies and Cosmology

The content, structure and possible evolution of galaxies. The "21-centimeter line": the song of interstellar hydrogen. Distribution of mass, seen and unseen, in galaxies and clusters of galaxies. Distribution of clusters over the sky. Quasars and the nuclei of galaxies. The origin of the universe, and the present controversy over its eventual fate.

—E. Spiegel

Prerequisite: a working knowledge of high school algebra.

3 points. M W 1:10-2:25

AST V 1753x

Introduction to Astronomy I

An introduction to astronomy, taught at Barnard, intended primarily for non-science majors. Includes the history of astronomy, the apparent motions of the moon, sun, stars, and planets, gravitation and planetary orbits, the physics of the Earth and its atmosphere, and the exploration of the solar system. —J. Patterson

Recommended preparation: a working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1903x.

3 points. M W 1:10-2:25

AST V 1754y

Introduction to Astronomy II

The properties of stars, star formation, stellar evolution and nucleosynthesis, the Milky Way and other galaxies, and the cosmological origin and evolution of the universe. —J. Patterson

Recommended preparation: a working knowledge of high school algebra. Suggested parallel laboratory course: AST C 1904y.

3 points. M W 1:10-2:25

AST C 1836y

Stars and Atoms

A study of the life cycle of stars, from their birth in cold gas clouds to their final death throes in supernova explosions. The turn-of-the-century revolution in physics: x-rays, radioactivity, the nuclear atom, and the quantum theory. Energy production by nuclear fission and fusion, and its consequences. —M. Rich

Recommended preparation: a working knowledge of high school algebra.

3 points. Tu Th 2:40-3:55

AST C 1903x

Earth, Moon and Planets Laboratory

This laboratory is for the lecture courses AST V 1753x or AST C 1403x. The lecture course must be taken concurrently. —L. Kay and Staff

Corequisite: AST V 1753x or AST C 1403x.

1 point, hours TBA.

AST C 1904y

Stars, Galaxies and Cosmology Laboratory

This laboratory is for the lecture courses AST V 1754y or AST C 1404y. The lecture course must be taken concurrently. —A. Crotts and Staff

Corequisite: AST V 1754y or AST C 1404y.

1 point, hours TBA.

AST C 1203x

Introduction to Astrophysics I

The first term of a two-term calculus-based introduction to astronomy and astrophysics. Topics include the physics of stellar interiors, stellar atmospheres and spectral classifications, stellar energy generation and nucleosynthesis, supernovas, neutron stars, white dwarfs, interacting binary stars. —J. Applegate

Prerequisite: a working knowledge of calculus.

3 points. Tu Th 2:40-3:55

AST C 1204y

Introduction to Astrophysics II

Continuation of AST C 1203x. Topics include the structure of our galaxy, the interstellar medium, star clusters, properties of external galaxies, clusters of galaxies, active galactic nuclei, cosmology. —A. Crotts

3 points. Tu Th 2:40-3:55

AST C 3101

Stellar Structure and Evolution

Prerequisite: a working knowledge of calculus and university-level introductory physics.

3 points. Not offered in 1994-95.

AST C 3102

Planetary Dynamics and Physics of the Solar System

Prerequisite: a working knowledge of calculus and university-level introductory physics.

3 points. Not offered in 1994-95.

AST C 3103x

Galaxies and the Interstellar Medium

Topics include gaseous nebulae, ionization zones, molecular clouds, dust, interstellar chemistry, supernova remnants, stellar populations, stellar kinematics, galactic rotation, 21-cm. surveys, spiral structure, external galaxies, star formation, active galaxies. —M. Rich

Prerequisite: a working knowledge of calculus and university-level physics.

3 points. M W 1:10-2:25

AST C 3104y

Cosmology

Prerequisite: a working knowledge of calculus and university-level introductory physics.

3 points. Not offered in 1994-95.

AST C 3302x

General Relativity, Cosmology, and Black Holes

Special relativity and its role in physics. The Newtonian theory of gravity from Einstein's viewpoint. The equivalence principle. General relativity. Newtonian and relativistic cosmology. Black hole solutions. Thermodynamics of black holes. —E. Spiegel

Prerequisite: a working knowledge of calculus and elementary physics.

3 points. Tu Th 1:10-2:25

AST W 3461x

Order and Disorder in Nature

Prerequisite: Math V 1102 or the equivalent, or permission of the instructor.

3 points. Not offered in 1994-95.

AST C 3646x

Observational Astronomy

Prerequisites: 3 points of previous course-work in astronomy or physics; by permission this can be a corequisite.

3 points. Not offered in 1994-95.

AST C 3997x and C 3998y

Seminar and Research Course

Topics in current research. —J. Applegate
1-3 points. Hours TBA.

For description of other astronomy courses, see the *Columbia College Bulletin*.

PHYSICS COURSES

PHY C 1001x, 1002y

Elementary Physics

An introduction to physics with emphasis on quantum phenomena, relativity, and models of the atom and its nucleus. —E. Weinberg

No previous background in physics is expected; high school algebra is required. Satisfies the Barnard science requirement if taken with BC 1091-2, but not the physics requirement for admission to medical school.

3 points. Tu Th 1:10-2:25

PHY BC 1091x, 1092y

General Physics Laboratory

Laboratory to accompany PHY C 1001, 1002.

First semester: statistics, falling motion, harmonic motion, collisions, pressure, and heat. Second

semester: light, electrons, atoms. —x: R. Friedberg, y: Instructor TBA.

Corequisite: PHY C 1001, 1002 or permission of the instructor.

1 point. Hours TBA.

PHY V 1405

Physics in Historical Perspective

Course V 1305x, but without the laboratory.

3 points. Not offered in 1994-95.

PHY V 1201x, 1202y

General Physics (formerly 1003x, 1004y)

Mechanics, heat, electricity, magnetism, optics, and modern physics. —x and y: E. Aprile

No prerequisite. Non-calculus based approach.

4 points. Lecture M W 11:00-12:15

Laboratory: 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00.

Laboratory sections are arranged after the first class meeting.

PHY V 1900x, y

Seminar in Contemporary Physics and Astronomy

Lectures on current areas of research with discussions of motivation, techniques, and results, as well as difficulties and unsolved problems. Each student submits a written report on one field of active research. —M. Schwartz

Prerequisite or corequisite: any 1000-level course in the Physics or Astronomy departments. This course may be repeated for credit only with the instructor's permission.

1 point. F 11:00-12:00

PHY BC 1206x

Physics I: Mechanics

Fundamental laws of mechanics. Kinematics, Newton's Laws, work and energy, oscillations, gravitation, conservation laws, collisions, rotation. —S. Koutsoliotas

Corequisite: Calculus I or the equivalent.

4.5 points. Tu Th 10:35-11:50

Laboratory hours TBA.

PHY BC 1207y

Physics II: Electricity and Magnetism

Charge, electric field, and potential. Gauss' Law. Circuits: capacitors and resistors. Magnetism and electromagnetism. Induction and inductance. Alternating currents. Maxwell's equations, waves. —S. Koutsoliotas

Prerequisite: Physics BC 1206y or the equivalent.

Corequisite: Calculus II.

4.5 points. Tu Th 10:35-11:50

Laboratory hours TBA.

PHY BC 1208x

Physics III: Waves and Optics

Study of wave phenomena, optics, and introductory quantum physics: mechanical, sound, and light waves; geometrical optics; interference and diffraction; and additional topics.

—T. Halpin-Healy

Prerequisites: Physics BC 1207x or equivalent.

Corequisite: Calculus III.

4.5 points. Tu Th 9:10-10:25

Laboratory: hours TBA.

PHY C 1801x, 1802y (formerly 1021x, 1022y)

General Physics

Mechanics, heat, electricity, magnetism, and light. —S. Ritz

Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus and permission of the departmental representative.

(A special placement meeting is held during Orientation Week.)

4 points. Lecture Tu Th 10:35-11:50

Laboratory: 3 hours TBA at the first class meeting.

PHY W 3003x

Mechanics

Newtonian mechanics. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. Relativistic mechanics. —F. Sciulli

Prerequisites: General physics and integral calculus.

3 points. M W 11:00-12:15

PHY W 3007y

Electricity and Magnetism

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansion. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity.

—M. Schwartz

Prerequisites: BC 1207 or the equivalent, and differential and integral calculus.

3 points. M W 11:00-12:15

PHY W 3008x

Electromagnetic Waves and Optics

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction. —W. Lee

Prerequisite: W 3007.

3 points. M W 9:35-10:50

PHY W 3021x

Quantum Physics

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance. —P. Rowson

Prerequisite: BC 1208 or C 1802 or the equivalent.

3 points. Tu Th 9:00-10:15

PHY W 3022y

Thermal and Statistical Physics

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors. —R. Friedberg

Prerequisite: W 3021x.

3 points. Tu Th 9:00-10:15

PHY W 3072y

Seminar in Current Research Problems

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. —M. Ruderman

Open only to senior majors. May be taken for Pass/Fail credit only.

2 points. W 4:10-5:25

PHY W 3081x, y

Intermediate Laboratory Work

The laboratory has available 12 individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity.

Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics.

—B. Knapp, M. May

For junior and senior physics majors. Other majors require permission of the instructor. May be repeated for credit by performing different experiments.

1.5 points. M or F 1:10-5:00

PHY BC 3082x, y

Advanced Physics Laboratory

Barnard College physics laboratory has available a variety of individual experiments, of which two are required for 1.5 points. Each experiment is chosen by the student in consultation with the instructor,

requires substantial preparation, and is followed up by written and oral presentations. Registration is limited by laboratory capacity. Experiments investigate Poisson Statistics, beta decay, driver oscillators, as well as high-temperature superconductivity. Numerical (i.e., computer) experiments in statistical physics and chaos are also possible, using the department's minicomputer facility.

—T. Halpin-Healy

Intended primarily for junior and senior physics/astro majors and may be repeated for credit by performing different experiments. Enrollment limited to 6.

1.5 points. Laboratory hours TBA.

PHY W 3083y

Electronics Laboratory

Experiments in solid state electronics, with introductory lectures. —W. Zajc

Permission of the instructor required.

Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.

2 points. M W 1:00-4:00

PHY V 3500x, y

Supervised Readings in Physics

Readings in a selected field of physics under the supervision of a faculty member. Written reports and periodic conferences with the instructor. —Staff
Prerequisite: written permission of the faculty member who agrees to act as supervisor and the permission of the departmental representative.

3 points.

PHY V 3900x, y

Supervised Individual Research

For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete. —Staff

Permission of the department representative required.

1 to 5 points a term.

PHY G 4003y

Lagrangian Mechanics

Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes.

—M. Kamionkowski

Prerequisite: W 3003.

3 points. M W 9:35-10:50

PHY G 4021x

Quantum Mechanics

The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms. —P. Kaaret
Prerequisites: W 3003, W 3007, W 3021.

3 points. Tu Th 10:35-11:50

For a description of other courses, see the *Columbia College Bulletin*.

PHY F 1003x, 1004y

General Physics

4 points. Lecture Tu Th 7:40-8:55. Lab TBA.

PHY W 1003y, 1004x

General Physics

4 points. Lecture M W 2:40-3:55. Lab TBA.

PHY C 1601x, 1602y (formerly 1406x, 1407y)

General Physics I, II

3 points.

PHY W 1906x, 1907y

Physics Laboratory

1 point.

Professors: Demetrios Caraley (Janet H. Robb Professor and Chair)², Dennis Dalton (Ann Whitney Olin Professor)¹, Peter Juviler, Richard M. Pious²

Associate Professor: Robert W. Bailey (Visiting), Ester Fuchs³

Assistant Professors: Michael X. Delli Carpini (Departmental Representative and Acting Chair, Spring), John H. Glascock (Visiting), Iris J. Goodwin (Visiting), Xiaobo Lu, Judith Russell (Departmental Representative)³, J. Phillip Thompson, Naomi Weinberger

Instructors: Sanya Popović

Lecturers: Leslie Calman, Flora Davidson

Associate: Jay K. Bainbridge

Adjunct Associate Professors: Rosalind Fink

Other officers of the University offering courses listed below:

Professors: Lisa Anderson, David A. Baldwin, Thomas P. Bernstein, Richard Betts, Seweryn Bialer, Douglas A. Chalmers, Gerald L. Curtis, Julian H. Franklin, Charles V. Hamilton, Robert Jervis, Ira Katznelson, Mark Kesselman², Robert Legvold, Andrew Nathan, Joseph Rothschild, Warner R. Schilling, Jack Snyder, Alan F. Westin²

Associate Professors: Jean Cohen, Gregory Gause, David Johnston², Edward D. Mansfield, Helen Milner, Barnett Rubin, Robert Shapiro

Assistant Professors: Charles Cameron, David Epstein², Peter A. Johnson, Carlton Long, Arvid Luskauskas, Anthony Marx³, Sunita Parikh², Steven Solnick, Hendrik Spruyt, Robert M. Uriu

¹Absent on leave Autumn term

²Absent on leave Spring term

³Absent on leave 1994-95

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

A. Political Science BC 3001

Dynamics of American Politics

B. One of the following courses:

Political Science V 3501

Introduction to Comparative Politics

Political Science V 3601

International Politics

Political Science BC 3013

Political Theory

C. Two colloquia or other courses having a research paper from among those courses designated by an asterisk (*); and

D. Two semesters of research seminar for the senior thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to

explore more fully the techniques of scholarly investigation, both majors and concentrators are required to write a senior thesis as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Departmental approval must be granted for transfer courses used toward the major. Only three transfer courses may be counted.

REQUIREMENTS FOR URBAN AFFAIRS MAJORS
WITH POLITICAL SCIENCE CONCENTRATION

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V-3313	<i>American Urban Politics</i>

Two from the following courses:

Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535 - BC 3537	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8232	<i>Colloquium on Urban Politics, Policymaking, and Administration</i>

Two semesters of research seminar for the senior thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, y
Dynamics of American Politics

Examination of the dynamics of the American political system at the national level including political participation elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary. —Staff
Credit is not granted for both this course and W 3201.
3 points.

x: M W 11:00-12:15 —R. Pious
y: M W 11:00-12:15 —M. Delli Carpini

III S

POS BC 3007x
Modern Political Movements

Causes, structures and strategies of 20th-century political movements with particular reference to issues of imperialism, nationalism, race and gender. Case studies of Indian nationalism, Nazism, Bolshevism, civil rights and women's movement. —L. Calman
3 points. Tu Th 10:35-11:50

I S

POS BC 3013x, 3014y
Political Theory I, II

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change. —Staff

Note: As of September 1996, open to first-year, second-year, and transfer students only. BC 3013 is a prerequisite for BC 3014. No credit is given for BC 3014 unless BC 3013 has been satisfactorily completed.
3 points. x: Tu Th 9:10-10:25 —I. Goodwin
y: Tu Th 9:10-10:25 —D. Dalton S

POS V 3313y
American Urban Politics
Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic, and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems. —J. Glascock
3 points. M W 1:10-2:25 III S

POS V 3501y
Introduction to Comparative Politics
An introduction to major issues and theories in comparative politics, democratization and human rights. —P. Juviler, X. Lu
3 points. Tu Th 10:35-11:50
Optional discussion sections: Hours TBA. I S

POS V 3601x, y
International Politics
Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.
3 points.
x: Sec. 1 Tu Th 1:10-2:25 —N. Weinberger
Discussion section TBA.
Sec. 2 Tu Th 6:00-7:15 — H. Spruyt
Discussion section TBA.
y: M W 11:00-12:15 — R. Jervis
Discussion section TBA. I S

POS BC 3345y
Statistical Analysis of Politics and Policy
Use of the microcomputer, including SPSS and electronic spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis. —J. Bainbridge
Satisfies Quantitative Reasoning requirement.
Recommended prerequisite: BC 3001.
4 points. Tu Th 10:35-11:50
Lab: F 11:00-1:00

AMERICAN GOVERNMENT AND POLITICS

Lecture Courses

POS V 3320y
Contemporary Black Politics
An examination of the major issues in contemporary black politics including voting, black electoral campaigns, the role of African Americans in national politics, and African Americans in political office. —J.P.Thompson
3 points. M W 2:40-3:55

POS W 3245x
Race and Ethnicity in American Politics
The historical and contemporary roles of various racial and ethnic groups; initiation demands, leadership and organizational styles, and orientation, benefits, and impact on the structure and output of governance in the United States. —S. Parikh
3 points. Tu Th 1:10-2:25

POS BC 3322y
The American Congress
Dynamics, organization, and policymaking processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another. —J. Glascock
Prerequisite: BC 3001 or the equivalent.
3 points. M W 10:35-11:50 S

POS BC 3325x
The Judicial Process
Prerequisite: BC 3001 or a course in American history. Not open to students who have taken W 3399.
3 points. Not offered in 1994-95. S

POS W 3470y
Women in Politics
3 points. Not offered in 1994-95.

POS BC 3335x
Mass Media and American Democracy
An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public. —M. Delli Carpini
Prerequisite: BC 3001 or the equivalent.
3 points. Tu Th 2:40-3:55 III S

POS BC 3336x, y

Workshop in Mass Media and Politics

Junior or senior status: prearrange internship through Office of Career Services. Prerequisite or corequisite: POS BC 3335 or the equivalent.

Permission of the instructor required.

2 points. Not offered in 1994-95.

POS W 3399x

The Supreme Court and American Politics

The role of the Supreme Court and the judicial process in American government. The use of litigation as an instrument of politics. Issues of property, liberty, equality, and due process as treated by the courts. —A. F. Westin

Prerequisite: sophomore standing.

3 points. M W 11:00-12:15

POS W 3400y

Law and Politics of Civil Liberties

Prerequisite: Open only to juniors and seniors who have had a course in American government or constitutional law.

3 points. Not offered in 1994-95.

POS W 4311x

American Parties and Elections

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties. —J. Glascock

3 points. M W 11:00-12:15

III S

POS W 4316x

The American Presidency

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious

Prerequisite: BC 3001 or the equivalent.

3 points. M W 1:10-2:25

III S

Colloquia

***POS BC 3326y**

Colloquium on Civil Rights and Liberties

Exploration of some currently-evolving civil rights and liberties, primarily through analysis of Supreme Court decisions and pending cases. Topics include race and sex discrimination; sexual harassment; desegregation; affirmative action; freedom of expression, including pornography and "hate speech;" and abortion. —R. Fink

Prerequisite: BC 3001 or equivalent and permission of instructor.

4 points. M 4:10-6:00

S

***POS BC 3327x**

Colloquium on Content of American Politics

Readings, discussions and reports on changing cleavages and policy issues in American national politics since the 1960s.

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. Hours TBA.

III S

***POS BC 3331y**

Colloquium on American Political Decisionmaking

4 points. Not offered in 1994-95.

I S

***POS BC 3333x**

Colloquium on Policy Analysis

Theoretical aspects and practical applications of policy analysis. Topics include the policymaking process and the roles and tools of policy analysis. Actual case studies will be used. Students will also simulate case studies for analytical purposes. —J. Bainbridge

Prerequisite: BC 3001 or equivalent and permission of the instructor. Enrollment limited to 18 students.

4 points. Tu 4:10-6:00

III S

***Urban Affairs UAF BC 3535y**

Colloquium on Urban Administration and Management

Prerequisite: BC 3001 or V3313 or the equivalent.

Enrollment limited to 20 students.

4 points. Not offered in 1994-95.

III S

Urban Affairs UAF BC 3537y

Workshop in Urban Administration and Management

Corequisite: Urban Affairs BC 3535.

2 points. Not offered in 1994-95.

***POS G 8232x**

Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley

Prerequisite: BC 3001 or V 3313 and permission of the instructor.

4 points. Th 2:10-4:00

III S

COMPARATIVE POLITICS AND FOREIGN GOVERNMENT

Lecture Courses

POS BC 3422y

Social Democracy in Western Europe

Prerequisite: V3501 or the equivalent.

3 points. Not offered in 1994-95.

POS BC 3424x

Asian Politics

A survey of origins, development and dynamics of politics in post-war Asia, with a focus on countries in East and Southeast Asia. We will examine political institutions, cultures and processes in these countries. —X. Lu

3 points. Tu Th 10:35-11:50

POS W 3531y

The Politics of East Central Europe

3 points. Not offered in 1994-95.

POS W 3502x

Political Change in the Third World

The characteristics of politics of "peripheral" countries of Asia, Africa, and Latin America, with emphasis on interpretations by scholars and writers from those areas. Discussion of Third World peoples' emergence from colonial rule, relationship to the state, and role in changing their models of governance. —P.K. Oldenburg

3 points. M W 4:10-5:25

POS W 4420x

Politics in Advanced Capitalist Society: West Europe and the U.S.

The rise and fall of the post-war settlement within advanced capitalism, as well as changes in the labor process, political economy, role of the state, ruling coalitions, and social movements in the present period. Attention is given both to theoretical debates and historical developments. —M. Kesselman

Mandatory discussion section.

3 points. W F 11:00-12:15

POS W 4445x

Politics in the Middle East and North Africa

Comparative analysis of regime types, political development and political decay, nation state building, and the role of political groups in the Middle East and North Africa. —L. Anderson

3 points. Tu Th 10:35-11:50

POS W 4461y

Latin American Politics

Political structures, conflict, and change in the region, including discussion of the politics in select-

ed countries, patterns of regime change and the involvement of the United States. —R. Kaufman

3 points. F 11:00-12:50

Mandatory discussion section W 11:00-11:50

POS W 4471x

Chinese Politics

3 points. Not offered in 1994-95.

POS W 4472y

Japanese Politics

A survey of contemporary Japanese politics, focusing on political leadership, party organization and behavior interest group structures, patterns of national-local linkage, and clientelism. Emphasis on relating the Japanese experience to the general literature on these themes. —G. Curtis

3 points. M W 4:10-5:25

One-hour discussion sections TBA.

POS G 4496y

Contemporary African Politics

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. Not offered in 1994-95.

POS W 4842y

Conflicts and Conflict Resolution in the Middle East

Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the confrontation in the Gulf, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined. —N. Weinberger

Prerequisite: V 3501 or V 3601 or permission of the instructor.

3 points. Tu Th 1:10-2:25

II

Colloquia

*POS BC 3055y

Colloquium on Political Violence and Terrorism

Contemporary political violence and terrorism in comparative perspective. Case studies include the Middle East, South Africa, Northern Ireland, and Peru; and the role of the media, with special attention to international responses to sub-state violence. —S. Popović

4 points. M 2:10-4:00

II

*POS BC 3220x

Colloquium on Communism and Revolutionary Change

Nature, causes and consequences of revolution. Case studies examined are the Russian Revolution of 1917; the Chinese Revolution; and the Maoist

Shining Path insurgency in Peru. —S. Popović
Prerequisites: BC 3007 recommended, or the equivalent and permission of the instructor required.
 4 points. M 2:10-4:00 II S

***POS BC 3221x**
Colloquium on Politics and Human Rights in Post-Soviet Systems
 Soviet conception of governing authority and human rights; the interaction of government and citizens. —P. Juviler
Prerequisite: V 3501 or BC 3007, or Soviet politics or history. Admission by application only.
 4 points. Th 2:10-4:00 I S

***POS BC 3414y**
Colloquium on Women and Third World Politics
 An exploration of how women and political structures influence one another in Asia, Latin America, the Middle East, and Africa. How do different political systems and political cultures influence women's status and power? What are influences on women's level and mode of participation? What benefits do or do not accrue to them from participation? —L. Calman
Prerequisite: POS V 3501, BC 3007 or W3502.
 Admission by application only.
 4 points. Th 2:10-4:00 I S

***POS BC 3425y**
Colloquium on the Politics of Development in East Asia
 Designed to inform students about the politics of development in one of the world's most rapidly growing regions — East Asia (Japan, China, Korea and Taiwan), focusing on the role of the state in economic development. —X. Lu
Prerequisite: V3501 or or the equivalent. Enrollment limited to 15 students. Admission by application only.
 4 points. Hours TBA. II S

INTERNATIONAL RELATIONS AND FOREIGN POLICY

Lecture Courses

POS BC 3012y
The United Nations in International Politics
 3 points. Not offered in 1994-95.

POS W 3614x
The Causes of War
Prerequisite: POS V 3601 or the instructor's permission.
 3 points. Not offered in 1994-95.

POS W 3630y
The Politics of International Economic Relations
 Introduction to the political and historical dimensions of the international economy. Political aspects of trade, monetary systems, foreign investment, banking, global interdependence. —A. Lukauskas
 3 points. Tu Th 10:35-11:50

POS W 4804y
The Making of American Foreign Policy
 Constitutional, organizational, and partisan dynamics of the foreign policy process, with special attention to legislative-executive and civil-military relations, intelligence, activities, and performance in crises. —R. Betts
Prerequisite: POS V 3601 or permission of the instructor.
 3 points. M W 11:00-12:15

Colloquia

***POS BC 3118x, y**
Colloquium on Problems in International Politics
 Readings, discussions, and presentations on selected problems in international politics.
 x: Nationalism and the break-up of states in Eastern Europe and the former Soviet Union.
 y: Israeli and Palestinian nationalism: conflict and mediation. —Staff
Prerequisite: Course V 3601 and permission of the instructor.
 4 points. x: Tu 2:10-4:00 — S. Popović
 y: W 2:10-4:00 —N. Weinberger I S

***POS BC 3410y**
Colloquium on Human Rights in a Diverse World
 Exploration of the nature of human rights and questions of their validity and relevance, protection and redefinition, in this world of cultural diversity and diversity of national interests.—P. Juviler
 Open to juniors and seniors of Barnard and Columbia by application November-December 1994, through Barnard Political Science office, Lehman Hall.
 4 points. Th 2:10-4:00 I S

POLITICAL THEORY

Lecture Courses

POS W 3411x
Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State
 3 points. Not offered in 1994-1995.

POS W 3412y
Modern Political Thought
Political philosophy from Hobbes to Mill.
—R. Amdur
3 points. Tu Th 2:40-3:55

Colloquia

***POS BC 3416y**
Colloquium on Personality and Politics
Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders. —F. Davidson
Permission of the instructor required. Enrollment limited to 16 students.
4 points. Tu 4:10-6:00 S

***POS BC 3423y**
Colloquium on Nonviolence
Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in 20th-century America and Europe. —D. Dalton
Prerequisites: BC 3013, BC 3014, and BC 3007. Admission by application only.
4 points. W 2:10-4:00 I S

***POS BC 3433y**
Colloquium on Concepts of Democratic Political Theory
Permission of the instructor required
4 points. Not offered in 1994-95. III S

***POS BC 3440x**
Colloquium on Women in Western Political Thought
Permission of the instructor required.
4 points. Not offered in 1994-95. I S

***POS W 3833x**
Colloquium on Political Ideas
Focus is on theories and critiques of rights. First, an analysis of what it means to have basic rights. Then a consideration of critiques on rights stemming from Marxian, feminist and multicultural perspectives. —J. Cohen
Prerequisite: BC 3013, BC 3014 or equivalent, and permission of the instructor.
4 points. Tu 4:10-6:00

COURSES IN QUANTITATIVE METHODS

POS W 4910x
Principles of Quantitative Political Research
Introduction to the use of quantitative techniques in political science and public policy. Topics include descriptive statistics and principles of statistical inference, and probability through analysis of variance and ordinary least-squares regression. Computer applications are emphasized. —R. Shapiro
4 points. Tu Th 10:35-11:50

POS G 4911y
Analysis of Political Data
Multivariate and time-series analysis of political data. Topics include time-series regression, structural equation models, factor analysis, and other special topics. Computer applications are emphasized. —R. Shapiro
4 points. Tu Th 10:35-11:50

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring preregistration students must apply for the section desired.

POS V 3711x-3712y
Research Seminar in American Politics
Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and politics. Two semesters. —Staff
4 points. Sec. 1 Tu 4:10-6:00 —D. Caraley,
J.P. Thompson
Sec. 2 Th 4:10-6:00 —M. Delli Carpini
Sec. 3 W 4:10-6:00 —J. Glascock

POS BC 3761x-3762y
Research Seminar
Discussion and conferences on the researching and writing of the senior essay. — Staff
4 points. Two semesters.
x: Sec. 1 Th 4:10-6:00 —P. Juviler
Sec. 2 Tu 4:10-6:00 —S. Popović
Sec. 3 W 4:10-6:00 —X. Lu
Sec. 4 W 4:10-6:00 —N. Weinberger
Sec. 5 Tu 4:10-6:00 —I. Goodwin
y: Sec. 5 Tu 4:10-6:00 —D. Dalton

POS V 3701x-3702y
Research Seminar in American Politics
4 points.
x: Sec. 1 W 2:10-4:00 —C. Hamilton
Sec. 2 Tu 2:10-4:00 —C. Cameron
Sec. 3 W 11:00-12:50 —S. Parikh
Sec. 4 M 2:10-4:00 —A. Westin

y: Sec. 1 M 2:10-4:00 —C. Hamilton
 Sec. 2 Tu 2:10-4:00 —R. Shapiro
 Sec. 3 W 2:10-4:00 —A. Gondek
 Sec. 4 W 4:10-6:00 —C. Hamilton

**Political Science-Sociology PSS V 3994x-3995y
 New York Area
 Undergraduate Research Program**

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —R. Bailey
Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms. Does not satisfy seminar requirement for Barnard POS majors.
 4 points. M 4:10-6:00

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and School of International and Public Affairs.

**COURSES OFFERED AT
 REID HALL IN PARIS**

The following courses are offered, in French, at Reid Hall in Paris. For additional information, see the Reid Hall Programs bulletin available in 412 Lewisohn Hall.

Political Science H 3210x, y

France and Africa: Post-colonial Relations

The post-colonial system of political, economic, and cultural relationships evolved by France and her former colonies, the new rules governing those relationships, and their impact on France and in competing powers in their respective interactions with African states. —C. Amegan
 3 points.

Political Science H 3250y

French Foreign Policy since World War II

3 points. Not offered in 1994-95.

History-Political Science H 3240x, y

The State and Political Life in France from the Revolution to the Present

The continuity and discontinuity of French political life during the past 200 years. Factors that assure the permanence of French political life are often hidden from view because of frequent dramatic breaks and changes in political regimes. Through analysis of moments of turmoil and change, the underlying element of permanence is traced. Key dates indispensable to the study of contemporary France are discussed. —D. Hemery
 3 points.

History-Political Science H 3260y

The French Intellectual and France in Crisis: From the Dreyfus Case to May 1968

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention is given to moments of crisis: the Dreyfus case, the 30's, World War II, the Algerian War, etc. Establishes a typology of intellectual attitudes in France by examination of a series of "case studies" and the tracing of the evolution of particular intellectual points of view. —C. Prochasson
 3 points.

Professors: Peter Balsam (Chair), Lila Ghent Braine², Thomas Perera (Visiting), Robert Remez³, Rae Silver (Helene L. and Mark N. Kaplan Professor)

Associate Professors: Lawrence Aber³, Barbara S. Schmitter, Christina L. Williams³

Adjunct Associate Professors: Wendy McKenna, Corliss Parker, Carolyn A. Ristau

Assistant Professors: Larry B. Heuer, Gail Musen, Steven Stroessner, John Vitkus

Adjunct Assistant Professors: Howard Andrews, Maria Crisafi, Sandra F. Stingle

Adjunct Instructors: Peter Coleman, Johanna Nordlie

¹Absent on leave Autumn term.

²Absent on leave Spring term.

³Absent on leave 1994-95.

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babbling of infants to creative intellectual behavior, from sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, interpersonal behavior, the self-concept, and the resolution of conflict.

Common to all areas of psychology is a concern with adequate and appropriate method. The student will encounter many perspectives on psychological evidence and technique through lecture, laboratory, field courses, and other offerings.

Opportunities are available for supervised research, teaching, and field experience. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services also provide first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education, and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and those which establish a broad intellectual foundation.

Science requirement: Students desiring to fulfill the science requirement through psychology are encouraged to take their lab courses in their early years at Barnard, because seniors do not receive priority in lab placements. To ensure exposure to different methods in psychology, the two lab courses will be drawn from different groups in psychology. See the description of lab groups under *Requirements for the Major*.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$20 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1123, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 95.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer. Students who have passed the Advanced Placement exam with a score of 4 or 5 are exempt from BC 1001, and receive 3 points of AP credit.

Students must take:

Psychology BC 1001	<i>Introduction to Psychology</i> (prerequisite for further psychology courses)
Psychology BC 1101	<i>Statistics</i> (preferably in the sophomore year)

Students must take one course from each group, of which two must be laboratory courses:

Group A

Psychology BC 1105 or 1107	<i>Psychology of Learning</i>
Psychology BC 1130 or 1132	<i>Human Learning and Memory</i>

Group B

Psychology BC 1108 or 1110	<i>Perception</i>
Psychology BC 1117 or 1119	<i>Physiological Psychology</i>

Group C

Psychology BC 1123 or 1125	<i>Psychology of Personality</i>
Psychology BC 1136 or 1138	<i>Social Psychology</i>
Psychology BC 1127 or 1129	<i>Developmental Psychology</i>
Psychology BC 1156 or 1158	<i>Psychological Measurement</i>

Three additional elective courses are required. Students may take more than one course in each group.

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, and BC 3599.

The three required courses in related disciplines should be distributed in this manner: one-year course sequence in a science, accompanied by a three-hour laboratory section (astronomy, biology, chemistry, environmental science, geology, or physics); and one course from the cognate disciplines (anthropology, computer science, economics, linguistics, philosophy, or sociology).

The eight required psychology courses must be taken for a letter grade; the grade must be C- or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

These revised requirements for the major are in effect for the Class of '95 and following years. When in doubt the student should consult with her major adviser, whom she should select when she decides to major in psychology. The student may select the appropriate adviser in consultation with the administrative assistant or the chair.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1101 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

PSY BC 1001x,y

Introduction to Psychology

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.) —Staff

This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section.

3 points. x: Sec: 1 M W 11:00-12:15 —W. McKenna

Sec: 2 M W 6:10-7:25 —Staff

Sec: 3 Tu Th 4:10-5:25 —C. Ristan

Sec: 4 Tu Th 10:35-11:50 —L. Heuer

Sec: 5 Tu Th 1:10-2:25 —T. Perera

y: Sec: 1 M W 1:10-2:25 —Staff

Sec: 2 M W 2:40-3:55 —W. McKenna

Sec: 3 Tu Th 10:35-11:50 —Staff

Sec: 4 Tu Th 1:10-2:25 —Staff

Sec: 5 Tu Th 2:40-3:55 —Staff

PSY BC 1099x, y

Science and Scientists

Weekly meetings with researchers to discuss the nature of scientific inquiry in psychology; and intellectual professional and personal issues in the work of scientists. —S. Stroessner and guest scientists

Enrollment limited to first- and second-year students.

Prerequisite: BC 1001 or permission of the instructor.

1 point. Tu 4:10-6:00

CORE COURSES

PSY BC 1101x,y

Statistics

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments. —Staff

Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section.

Preregistration.

4 points. x: Sec: 1 Tu Th 2:40-3:55 —Staff

Rec. W 9:00-11:00 or 11:00-1:00

Sec: 2 M W 2:40-3:55 —Staff

Rec. Tu 10:00-12:00 or 12:00-2:00

y: Sec: 1: Tu Th 4:10-5:25 —H. Andrews

Rec. W 4:00-6:00

Sec: 2: M W 11:00-12:15 —Staff

Rec. Tu 9:00-11:00 or 11:00-1:00

PSY BC 1105x

Psychology of Learning

Basic methods, results and theory in the study of how experience affects behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects.

—P. Balsam and assistants.

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture Tu Th 10:35-11:50

Laboratory W or Th 1:00-4:00

Laboratory fee: \$20.

PSY BC 1107x

Psychology of Learning

Same as BC 1105, but without the laboratory.

—P. Balsam

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 15 students.

3 points. Tu Th 10:35-11:50

PSY BC 1108x

Perception

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings. —R. Remez and assistants

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students.

Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory M or Tu 2:00-5:00

Laboratory fee: \$20.

PSY BC 1110x

Perception

Same as BC 1108, but without the laboratory.

—R. Remez

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 15 students.

3 points. M W 11:00-12:15

PSY BC 1117y

Physiological Psychology

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning, and memory. —C. Ristau and assistants

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture Tu Th 10:35-11:50

Laboratory W 2:30-5:30 or Th 1:00-4:00

Laboratory fee: \$20

PSY BC 1119y

Physiological Psychology

Same as BC 1117y, but without laboratory.

—C. Ristau

Prerequisite: BC 1001. Enrollment limited to 20 students.

3 points. Tu Th 10:35-11:50

PSY BC 1123y

Psychology of Personality

Surveys the principal approaches to personality and their implications for personality development, psychological adjustment, and everyday behavior. In laboratory students will participate in all stages of personality research: conceptualizing a personality construct, designing and administering tests, identifying individual differences, and carrying out a study. —J. Vitkus

Prerequisite: BC 1001. Enrollment limited to 40 students.

4.5 points. Lecture: Tu Th 1:10-2:25

Laboratory: M or Th 9:00-12:00. Fee: \$20.

PSY BC 1125y

Psychology of Personality

Same as PSY BC 1123y, but without laboratory.

—J. Vitkus

Prerequisite: BC 1001 or permission of the instructor.

3 points. Tu Th 1:10-2:25

PSY BC 1127x,y

Developmental Psychology

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered. —x: L. Aber and assistants

y: —L. Braine and assistants

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 44 students.

Preregistration.

4.5 points. Lecture M W 1:10-2:25

Laboratory Tu 2:30-5:30, W 9:00-12:00

Laboratory fee: \$20.

PSY BC 1129x,y

Developmental Psychology

Same as BC 1127, but without laboratory.

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 20 students.

x —L. Aber, y —L. Braine

3 points. M W 1:10-2:25

PSY BC 1130y

Human Learning and Memory

Survey of contemporary theories of human memory. Topics will include sensory, short-term and long-term memory, levels of processing, organization, and encoding specificity. Special topics include eyewitness testimony, amnesia, implicit memory, and autobiographical memory. The laboratory consists of experiments related to these topics. —G. Musen and assistants

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory M or Tu 2:00-5:00

Laboratory fee: \$20.

PSY BC 1132y

Human Learning and Memory

Same as BC 1130, but without laboratory.

—G. Musen

Prerequisite: BC 1001.

3 points. M W 11:00-12:15

PSY BC 1136x

Social Psychology

A survey of contemporary theory and research on social thought and behavior. Issues such as person perception, attitudes, attraction, aggression, stereotyping, group dynamics, and social exchange will be explored. The application of theory and research to addressing social problems will be discussed. —S. Stroessner and assistants

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 50 students. Preregistration.

4.5 points. Lecture M W 11:00-12:15

Laboratory Tu or Th 9:00-12:00

Laboratory fee: \$20.

PSY BC 1138x

Social Psychology

Same as BC 1136, but without laboratory.

—S. Stroessner

Prerequisite: BC 1001 or permission of the instructor.

Enrollment limited to 25 students.

3 points. M W 11:00-12:15

PSY BC 1156x

Psychological Measurement

Prerequisite: BC 1001. Preregistration.

4.5 points. Not offered in 1994-95.

PSY BC 1158x**Psychological Measurement**

Prerequisite: BC 1001. Enrollment limited to 20 students. 3 points. Not offered in 1994-95.

MIDDLE-LEVEL COURSES**PSY BC 2134x****Educational Psychology**

Through a participative classroom model the major theories of human development and learning fundamental to the educative process are examined. Analysis of applications and implications of psychological knowledge for classroom teaching through observations in elementary and secondary school classes. Includes instructional models, motivation, teaching and learning strategies, evaluations, and gender issues. —S.R. Sacks
Prerequisite: BC 1001 or permission of the instructor. 3 points. Tu Th 2:40-3:55

PSY BC 2141x,y**Abnormal Psychology**

Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia, eating disorders, and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy. —x: J. Vitkus, —y: TBA
Prerequisite: BC 1001 or permission of the instructor. 3 points. Tu Th 10:35-11:50

PSY BC 2151x**Organizational Psychology**

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence, and authority, leadership, cooperation and conflict, decision-making, and communications. —P. Coleman
Prerequisite: BC 1001. Enrollment limited to 45 students. 3 points. M W 6:10-7:25

PSY BC 2154x**Hormones and Reproductive Behavior**

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are not prerequisites. —R. Silver
Prerequisite: BC 1001 or Biology BC 1101-BC 1102. Enrollment limited to 45 students. 3 points. M W 2:40-3:55

PSY BC 2158x**Human Motivation**

Prerequisite: BC 1001. Alternate years. 3 points. Not offered in 1994-95.

PSY BC 2160x**Cognitive Psychology**

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, memory, categorization, perception, and decision making. Special topics include neuropsychology and cognitive neuroscience. —G. Musen
Prerequisite: BC 1001. Enrollment limited to 20 students. Alternate years. 3 points. Tu Th 1:10-2:25

PSY BC 2370y**Psychological Analysis of Racism**

Prerequisite: BC 1001 and permission of the instructor. Enrollment limited to 20 students. Alternate years. 4 points. Not offered in 1994-95. I

PSY BC 2371x**Psychology and Women**

Selected topics examined from the perspective of different groups of women in western society. Topics include gender differences on cognitive tasks, in personality and attitudes, and the contribution of differential power to gender differences; psychological aspects of some special female experiences (e.g., sexuality, menstruation, etc.) —L. Braine
Prerequisite: BC 1001 or, for Women's Studies majors, instructor's permission. Enrollment limited to 20 students. 4 points. Tu 2:10-4:00 I

UPPER-LEVEL COURSES**PSY BC 3152y****Psychological Aspects of Human Sexuality**

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes toward sexuality. —W. McKenna
Prerequisite: BC 1001 and two other psychology courses or permission of the instructor. Enrollment limited to 30 students. Preference given to seniors. Preregistration. 3 points. M W 1:10-2:25

PSY BC 3155x**Psychology and Law**

A survey of the research on psychology as it relates to the legal process. Among the topics covered will be eyewitness identifications, jury decisionmaking, the insanity defense, rape trauma

syndrome, capital punishment and the death qualified jury. Each of these problems will be considered from both a theoretical and an applied perspective. —L. Heuer.
4 points. Th 4:10-6:00

PSY BC 3161y
Introduction to the Psychotherapeutic Process

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus of assessment choice or treatment psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change. —C. Parker
Prerequisites: BC 1001, and any two of the following courses: *Personality, Abnormal Psychology, Developmental Psychology, Human Motivation*, or permission of the instructor.
3 points. M W 11:00-12:15

PSY BC 3164y
Perception and Language

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130 or equivalent. Enrollment limited to 20 students. Alternate years.
3 points. Not offered in 1994-95.

PSY BC 3166x
Social Conflict

Prerequisite: BC 1001 and one additional psychology course, or permission of the instructor. Enrollment limited to 20 students.
4 points. Not offered in 1994-95.

PSY BC 3167y
History and Systems of Psychology

Development of the discipline of psychology in the last 100 years examined in the context of significant events occurring in society and in other disciplines. Discussion of psychology as a profession and of the major schools of thought: Structuralism, Functionalism, Behaviorism, Gestalt, Psychoanalysis, and Cognitive. —L. Braine
Prerequisite: open to juniors and seniors who have had BC 1001 and at least 2 other courses in psychology.
3 points. M W 2:40-3:55

PSY BC 3169x
Developmental Psychobiology

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and

response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning). —C. Williams
Prerequisites: BC 1001 and two other course in biology or psychology.
3 points. Hours TBA.

PSY BC 3372y
Topics in Developmental Psychology

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices. —Staff
Prerequisites: BC 1001 and two other psychology courses. Enrollment limited to 20 students.
4 points. Hours TBA.

PSY BC 3374y
Theories of Learning

Prerequisite: BC 1105 and junior or senior standing. Enrollment limited to 15 students. Alternate years.
4 points. Not offered in 1994-95.

PSY BC 3375y
Organization of Movement

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136. Enrollment limited to 20 students.
4 points. Not offered in 1994-95.

PSY BC 3376y
Infant Development

Prerequisites: BC 1001 and BC 1127 or BC 1129. Enrollment limited to 20 students.
4 points. Not offered in 1994-95.

PSY BC 3378x
Females and Males: A Psychobiological Perspective

Prerequisites: BC 1001 and 2 other psychology courses.
4 points. Not offered in 1994-95.

PSY BC 3379y
Psychology of Stereotyping and Prejudice

Research in psychology and biology has shown that there are sex differences in brain and behavior of men and other animals. The developmental, neurological, hormonal, genetic, experiential, and evolutionary bases of sex differences in reproductive behavior and cognitive function, and the implications of these differences will be critically examined. —S. Stroessner
Prerequisites: BC 1001 or permission of the instructor. Enrollment limited to 20 students.
4 points. W 2:10-4:00

PSY BC 3380x**Fundamental of Neuropsychology**

Exposition of research and theory in cognitive neuroscience through discussion of neuropsychological syndromes, including: aphasia, amnesia, dyslexia, Alzheimer's disease, prosopagnosia, and cognitive components of Parkinson's disease, Williams' syndrome. —G. Musen

Prerequisites: BC 1001 or permission of the instructor.

Enrollment limited to 20 students.

4 points. M 2:10-4:00

PSY W 4107y**Applications of Experimental Psychology**

Prerequisite: Learning course and permission of the instructor. *Enrollment limited to 15 students.*

Offered every three years.

3 points. Not offered in 1994-95.

PSY W 4132y**Production and Perception of Language**

Prerequisites: Psychology W 1501, W 3180, BC 3164, or permission of the instructor.

4 points. Not offered in 1994-95.

RESEARCH AND FIELD WORK COURSES

PSY BC 3465x, 3466y**Field Work and Research Seminar: Barnard Toddler Center**

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology.

Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates theory, research, and practice. —K. Deane

Prerequisite: BC 1127 and permission of the instructor. *Permission should be requested in the spring of the year preceding registration. Enrollment limited to 12 students.*

4 points. Tu 12:30-2:30

PSY BC 3473y**Field Work Seminar in Psychological Services and Counseling**

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials. —S. Stingle

Prerequisites: 3 psychology courses and permission of the instructor required during program planning the previous fall. *Enrollment limited to 12 students; seniors given priority.*

4 points. Tu 10:00-12:00 plus supervision TBA.

PSY BC 3591x, 3592y**Senior Research Seminar**

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination. —R. Silver

Open to senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.

Prerequisites: BC 1101, a minimum of five other completed psychology courses and permission of the instructor.

4 points. Tu 4:10-6:00

PSY BC 3599x, 3599y**Individual Projects**

Research projects planned in consultation with members of the department. —Staff

Open to majors on written permission of the department member who will supervise the project.

3 or 4 points. Hours TBA.

This program is supervised by the Quantitative Reasoning Committee.

Professor of Economics: Duncan Foley (Director)

Associate Professor of Mathematics: David Bayer

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

QUANTITATIVE REASONING REQUIREMENT

All entering students must take the Basic Math Skills test during their first week of matriculation. Students with scores lower than 11 out of 20 must take QUR BC 1001, *Basic Math Skills*, during their first year at Barnard before registering for any of the courses listed on page 34 that satisfy the *Quantitative Reasoning Requirement*. *Basic Math Skills* topics are arithmetic (including fractions, decimals and percentages), exponents and logarithms, equations and graphs, and word problems.

In order to graduate, students must pass one of the courses listed on page 35 in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. These courses can count both toward a major or distribution requirement and for the Quantitative Reasoning Requirement.

Students may fulfill the Quantitative Reasoning Requirement by securing Advanced Placement or transfer credit for a course listed on page 35 or for an equivalent course. A student who fulfills the Laboratory Science Requirement in Chemistry, Physics, or Astronomy simultaneously satisfies the Quantitative Reasoning Requirement.

COURSES OF INSTRUCTION

Quantitative Reasoning courses assume that students know the basic math skills topics. QR courses introduce students to the use of computers, but assume no previous computer experience.

QUR BC 1001x, y **Basic Math Skills**

Arithmetic (including fractions, decimals and percentages), exponents and logarithms, equations and graphs, and word problems. Required for students who score below 11 out of 20 on the Basic Math Skills exam. Open to other students only with permission of the instructor. A student who wishes to select the P/D/F grading option or drop this course must do so by the fifth week of the section in which she is enrolled. —A. Robb
1 point.

x: Sec. 1 Tu Th 9:10-10:25, Sept. 8 - Oct. 25

Sec. 2 Tu Th 6:10-7:25, Oct. 11 - Nov. 29

y: Sec. 1 Tu Th 9:10-10:25, Jan. 24 - Mar. 9

Sec. 2 Tu Th 6:10-7:25, Feb. 28 - Apr. 20

QUR BC 1100x

Confronting Uncertainty: Probability and Statistics in the Real World

Probability and betting on uncertain propositions. Bayes' Theorem and the consistent use of evidence in forming opinions. The statistics of political polling, medical diagnosis and therapeutic research, public policy, and interpersonal relations will be explored using the power of the *Mathematica* programming system. —D. Foley, J. Lad
3 points. M W 10:35-11:50

QUR BC 1110y

Words, Codes and Cryptorams

An introduction to the mathematics of the computer age by using computers to manipulate textual information. The first unit develops specific programming examples necessary to analyze textual input and output in PASCAL. The second unit focuses on basic concepts and techniques of cryptography, enabling students to design, implement, and analyze secret communications systems.

—J. Follansbee, J. Lad

3 points. Tu Th 10:35-11:50

Professors: Randall Balmer¹ (Chair, Spring), Karen Brown (Visiting), John Stratton Hawley² (Chair, Autumn), Alan Segal

Assistant Professors: Kate Cooper, Judith Weisenfeld³, Angela Zito

Visiting Assistant Professors: Joan Bryant, John Cort, Celia Deutsch

Instructors: Michael Stoller, Terry Todd

Other officers of the University offering courses listed below:

Professors: Peter Awn, Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Robert A. F. Thurman, David Weiss-Halivni

Assistant Professors: Ryuichi Abe, Alexander Alexaxis, Matthew Kapstein³, Gurinder Singh Mann, Susan Shapiro

¹Absent on leave Autumn term

²Absent on leave Spring term

³Absent on leave 1994-95

Approaches to the study of religion are as diverse as the world's religious traditions themselves. The student of religion encounters men and women—and our courses give explicit attention to both genders—as they explore the boundaries of their perceptions of the real. The challenge of this encounter inspires our involvement in the academic study of religion, even as it leads us to examine and question the boundaries of our world views.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by the Departments of Religion of Barnard College and Columbia College offers a unique context and extensive resources for this interdisciplinary study. The areas of expertise of the religion faculty (philology and the interpretation of texts, philosophy of religion, sociology and anthropology of religion, the history of specific religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes—Middle East, Southern Asia, East Asia, etc.—explore in depth the linguistic, literary, and sociocultural milieus of a particular Eastern or Western religious tradition. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit and other Indic languages, Tibetan, among others. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located near the campus. Students are encouraged to use the resources they offer, including their world-renowned libraries.

All courses, except those limited to majors, satisfy the College's distribution requirements in the Humanities.

DEGREE REQUIREMENTS

FOR THE MAJOR

Program of study: To be planned with the departmental adviser, taking into account the educational aims of the student. A religion major is expected to acquire knowledge of at least three sorts: i) an acquaintance with the linguistic, social-scientific, historical, and philosophical theories and methods that concern the study of religion; ii) an in-depth knowledge of one religious tradition; and iii) a critical, comparative understanding of the broad range of the world's religious phenomena, requiring some familiarity with all of the major world religions.

- Courses:** for the major, 10 courses in religion (for a minimum of 30 points) are required:
- i) Religion V 1001, *Introduction to the Study of Religion* (in exceptional cases Religion V 1101 or Religion V 1102, *Introduction to the Study of Western Religion* and *Introduction to the Study of Eastern Religion*, may be substituted at the discretion of the student's departmental adviser).
 - ii) Two survey courses in the major religious traditions, one Western, one non-Western—V 2600 *Hinduism*, V 2607 *Buddhism: Indo-Tibetan*, V 2608 *Buddhism: East Asian*, V 2610 *Christianity*, V 2620 *Judaism*, V 2630 *Islam*, and V 2640 *Chinese Religious Traditions*.
 - iii) Three intermediate courses in the study of religion, with two chosen in the tradition of main concentration; the third course must be from a substantially different tradition or area. Where appropriate, selected courses offered in other departments may be applied toward the fulfillment of this requirement, subject to the approval of the religion adviser.
 - iv) The Junior Majors' Colloquium, Religion V 3799.
 - v) Any advanced departmental seminar.
 - vi) The Senior Majors' Colloquium, V 3800, *Critical Issues in the Modern Study of Religion*.
 - vii) A Senior Essay prepared in consultation with a member of the department; the essay may be written in connection with Religion V 3901-3902 *Guided Reading and Research*, and is taken into consideration when making recommendations to the Faculty Committee on Honors.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition in addition to fulfilling the College language requirement.

For a Minor in Religion

Program of Study: to be planned with the departmental representative, taking into account the educational aims of the student.

Courses: For the minor five courses are required, including:

- i) Religion V 1001, *Introduction to the Study of Religion*; Religion V 1101, *Introduction to the Study of Western Religion*, or Religion V 1102, *Introduction to the Study of Eastern Religion*.
- ii) Two survey courses in the major religious traditions, with a Western/non-Western distribution.
- iii) One departmental seminar or colloquium.

Note: A grade of C- or above is required for credit of major or minor requirements.

COURSES OF INSTRUCTION

For courses offered by other departments and the Graduate School of Arts and Sciences that bear upon the study of religion, students are urged to consult the appropriate bulletin. Some graduate courses are open to qualified undergraduates with the permission of the instructor.

INTRODUCTORY COURSES

REL V 1001x
Introduction to the Study of Religion
Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization. —G. Mann, T. Todd
3 points. M W 11:00-12:15 I H

REL V 1101x
Introduction to the Study of Western Religion
The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the West. —C. Deutsch
3 points. M W 4:10-5:25 I H

REL V 1102y

Introduction to the Study of Eastern Religion

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East. —A. Zito

3 points. M W 9:10-10:25 I H

THE TRADITIONS

REL V 2600x

Hinduism

Central themes in Hinduism, in their relation to Indian culture. Readings include original sources in translation. Visual material emphasized.

—J. Hawley

3 points. Tu Th 2:40-3:55 II H

REL V 2640x

Chinese Religious Traditions

The Chinese word for "religion" is "teaching." We explore what Chinese people taught themselves about the person, society and the natural world.

Covers classic texts of Taoist and Confucian canon and their synthesis; Mahayana Buddhism, folk religion and its relation to the state, and the modern cult of Maoism. —A. Zito

3 points. Tu Th 10:35-11:50 II H

REL V 2607x

Buddhism: Indo-Tibetan

A historical introduction to Buddhist thought, scriptures, practices, and institutions. Attention given to Theravada, Mahayana and Tantric Buddhism in India and Tibet. —R. Thurman

3 points. Tu Th 4:10-5:25 II H

REL V 2608y

Buddhism: East Asian

An introductory survey that studies East Asian Buddhism as an integral, living religious tradition. Emphasis is placed on the reading of original treatises in translation. Historical events are discussed in terms of their relevance to contemporary problems confronted by Buddhism. —R. Abe

3 points. Tu Th 11:00-12:15 III H

REL V 2610y

Christianity

Survey of the history of Christianity and of the social and ethical tensions which have informed its development. —M. Stoller

3 points. M W 1:10-2:25 III H

REL V 2620x

Judaism

Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations. —S. Shapiro

3 points. Tu Th 2:40-3:55 II H

Islamic-Religion ISR V 2630y

Islam

Survey of Islamic institutions, ideas and spirituality, their origin and development in formative and classical periods, and their continued evolution in a variety of cultural settings. —P. Awn

3 points. Tu Th 4:10-5:25 II H

ADVANCED COURSES, BY REGION OR TRADITION

AMERICAN RELIGIONS

REL V 3502x, 3503y

The History of Religion in America

A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: from colonization to the Civil War —T. Todd. V 3503y: from the Civil War to the present. —R. Balmer

3 points. Tu Th 10:35-11:50 I H

Religion-Sociology RSC V 3508x

Religious Cults in Contemporary American Society

3 points. Not offered in 1994-95. III H

History-Religion HIR V 3750y

Introduction to African-American History and Culture

3 points. Not offered in 1994-95. III H

REL V 3755x

African-American Religion

3 points. Not offered in 1994-95. III H

REL V 3803x Sec. 42

Religion and Public Policy in the United States

The political status of religion in the U.S. will be analyzed from the disestablishment of state-financed churches to contemporary debates over gay rights. The role of public policy in shaping religious practices and the influence of religion on public policy will be examined. —J. Bryant

4 points. M 11:00-12:50 III H

REL V 3804y Sec. 59**Racial Politics of American Religion**

Religious and racial dimensions of American culture will be examined. Participants will analyze the significance of race in religious constructions of American identity in the U.S. from the Second Great Awakening to the rise of Protestant fundamentalism. —J. Bryant

4 points. M 11:00-12:50

III H

REL V 3804y sec. 40**Women and Religion in American History**

An examination of the role of women and issues of gender in shaping religion in America, with attention both to primary sources and to recent historiography. —R. Balmer

4 points. Tu 2:10-4:00

III H

Ancient Mediterranean Religion**REL V 3240y****Graeco-Roman Religion**

3 points. Not offered in 1994-95.

III H

REL V 3412x**Gnosticism**

3 points. Not offered in 1994-95.

II H

BUDDHISM**REL V 3000y****Buddhist Ethics**

3 points. Not offered in 1994-95.

II H

REL V 2601y**Philosophies of India**

3 points. Not offered in 1994-95.

II H

Chinese and Japanese Religion**REL V 3603y****Taoism**

3 points. Not offered in 1994-95.

II H

REL V 3613x**Japanese Religious Tradition**

A study of the development of the Japanese religious tradition in the pre-modern period. Attention given to the thought and practices of Shinto, Buddhism, Confucianism, the interaction among these religions in Japanese history, and the first Japanese encounter with Christianity. —R. Abe

3 points. M W 11:00-12:15

II H

REL V 3804y Sec. 52**Body, Gender and Belief in China**

An examination of the image of family and the position of women in the Classics; factor in ritualist and Taoist notions of the body; discuss changes in the ideology of filiality over time. —A. Zito

4 points. W 2:10-4:00

II H

Christianity**REL V 3202y****Introduction to the New Testament**

Critical study of the formation of the New Testament canon, and the communities which produced it. —C. Deutsch

3 points. M W 4:10-5:25

III H

REL V 3402y**Early Christianity**

3 points. Not offered in 1994-95.

III H

REL V 3501y**18th- and 19th-Century Religious Thought: Religion and Its Critics**

Relationship between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others. —W. Proudfoot

3 points. M W 11:00-12:15

III H

REL V 3530y**The History of the Papacy**

A survey of the history of the papacy from its origins to the 16th-century Reformation.

—R. Somerville

3 points. M W 4:10-5:25

III H

REL V 3450**The Reformation**

3 points. Not offered in 1993-94.

I H

REL V 3804y Sec. 56**Asceticism and the Rise of Christianity**

Explores the paradox of renunciation and the power in ancient Christianity. We will trace the changing understanding of renunciation from the 1st to the 5th centuries C. E., and the changing languages by which Christians signaled their allegiance to an otherworldly ideal despite increasing involvement in the secular realm. —K. Cooper

4 points. Tu 9:00-10:50

III H

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INDIAN RELIGIONS

REL V 3590x

Jainism

Jainism is one of the oldest religious traditions of India, and is still a dynamic faith today. This course explores the history and contemporary situation of the Jains, with a focus on present-day religious practices and beliefs. —J. Cort
3 points. M W 1:10-2:25 II H

REL V 3605y

Sikhism

Focusing on the religious beliefs, literature, and history of the Sikhs, the course will trace the development of Sikhism from its inception as a part of a large devotional (bhakti) movement to its modern manifestation as a powerful religious minority in contemporary India. —G. Mann
3 points. M W 1:10-2:25 II H

History-Religion HIR V 3820

Religion and Society in Modern India

4 points. Not offered in 1994-95.

Asian Studies-Religion ASR V 3974y

Hindu Goddesses

—R. McDermott

Prerequisite : One course in Indian culture or religion, or permission of the instructor.

4 points. W 4:10-6:00 II H

ISLAM

see WMS V 3505y

Women, Islam and Nationalism in the Middle East

3 points. Not offered in 1994-95. II H

REL V 3635x

History of Sufism

3 points. Not offered in 1994-95. II H

Islamic-Religion ISR W 4300x

Islam in India

3 points. Not offered in 1994-95. II H

REL V 3803x Sec. 36

Seminar on Classical Sufi Texts

—P. Awn

4 points. Th 2:10-4:00. II H

JUDAISM

REL V 3201x

Introduction to the Hebrew Bible

Introduction to the literature of ancient Israel against the background of the ancient Near East. —A. Segal

3 points. M W 11:00-12:15 II H

REL V 3210y

Judaism During the Time of Jesus

An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West. —A. Segal
3 points. M W 11:00-12:15 II H

REL V 3214y

Introduction to Talmudic and Geonic Literature

3 points. Not offered in 1994-95. III H

REL V 3310y

Peshat and Derash in the Jewish Tradition

3 points. Not offered in 1994-95. III H

REL V 3315y

Law and Lore (Halakha and Aggadah) in the Jewish Tradition

We attempt to gain a better understanding of the differences between Halakha (the legal portion of the Talmud) and Aggadah (the more legal portion) with respect to both content and form. It will concentrate on selections from the Talmud and Midrash that bear relevance to the intrinsic nature of these two basic genres of rabbinic literature.

—D. Weiss-Halivni

3 points. M W 2:40-3:55 III H

REL V 3330x

The Beginnings of Jewish Mysticism

A study of Biblical and Hellenistic foundations for Western mysticism—scriptural visions of God, apocalyptic literature, Graeco-Roman magic, and the merkabah mystical movement in Judaism.

—A. Segal

3 points. Tu Th 10:35-11:50 III H

REL V 3338x

Jewish Ethics

3 points. Not offered in 1994-95. III H

REL V 3349x

Jewish Family Law

3 points. Not offered in 1994-95. III H

REL 3352y

Issues in Modern Jewish Thought

—S. Shapiro

3 points. Tu Th 2:40-3:55 III H

REL 3355x

Development of the Jewish Holidays

3 points. Not offered in 1994-95. III H

REL V 3360x
Jewish Liturgy

A survey of Jewish liturgy from the Bible to modern times, with occasional forays into Dead Sea prayer. Philosophy and theology of prayer will also be considered and, whenever possible, the social message will be emphasized. —D. Weiss-Halivni
3 points. M W 2:40-3:55 III H

REL V 3804y Sec. 55
Post-Holocaust Thought

Focuses on philosophical and theological texts that are either explicitly about or implicitly informed by the Holocaust. We will examine assumptions about history, language, meaning, memory, God, and traditions in terms of how they differently shape understandings of the Shoah and its aftermath. Of particular concern will be the philosophical and theological consequences of these differing interpretations. —S. Shapiro
4 points. W 11:00-12:50 III H

ADVANCED COURSES:
COMPARATIVE STUDIES**Asian Studies-Religion ASR V 3772x**
Perspectives on Evil and Suffering in World Religions

—R. McDermott
3 points. Tu Th 9:10-10:25 I H

REL V 3405x
Religion and Art: Icons and Iconoclasts

This course explores the relationship between artistic expression and religious experience, using materials from the Christian and Hindu traditions, organized around the following question: Why do some people feel that worshipping icons is an essential aspect of religious experience, while other people feel that it is necessary to destroy them? —J. Cort
3 points. M W 2:40-3:55 I H

REL V 3407y
Mysticism

3 points. Not offered in 1994-95. I H

REL V 3513x
Philosophy of Religion

Introduction to classical and contemporary issues, including those raised by the comparative study of religion. —W. Proudfoot
3 points. M W 11:00-12:15 I H

REL V 3700y
Women and Religion

3 points. Not offered in 1994-95. I H

Religion-Sociology RSC V 3720y
Sociology of Religion

3 points. Not offered in 1994-95. I S

REL V 3730y
Nonviolence in the Modern World

Examines the basic principles, practical problems, and current relevance of the spiritual, social, and political doctrines associated with the western concept of nonviolence and the Indian concept of *ahimsa*. The goal of the course is to develop a more sophisticated understanding of nonviolence as an alternative to the prevailing violent methods of ameliorating social and political problems in the modern world. —J. Cort
3 points. M W 2:40-3:55 I H

REL V 3780y
Religion in Racially Stratified Societies

3 points. Not offered in 1994-95. I H

REL V 3799y
Juniors' Colloquium

An introduction to the comparative study of religion focusing on dominant approaches to the conceptualization, interpretation, and explanation of religious phenomena and on key issues relating to the methodologies appropriate to such investigations. *Required of religion majors in their junior year.* —G. Lindt
4 points. W 9:00-10:50 I H

REL V 3800x
Majors' Colloquium

Critical issues in the modern study of religion. —K. Cooper
Required for all senior majors.
4 points. Sec. 1 Tu 4:10-6:00.
Sec. 2 Hours TBA. I H

REL V 3803x Sec. 24
African-Based Religions of the Caribbean

Interactions among the various traditional African religions preserved by slave populations in the Caribbean and Latin America, and between those religions and Christianity. Special foci: religion in Brazil and Haiti, and issues affecting women's experience and social change. —K. Brown
4 points. M 2:10-4:00 I H

REL V 3803x Sec. 46
**Cultural Constructions of the Body:
Embodiment in its Chinese and Mediterranean Contexts**

A study of how cosmological metaphors shape social forms through bodily experience. We will compare the Christian fascination with the body of God to the Chinese construction of the body as

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vehicle for cosmic energy. —K. Cooper and A. Zito
4 points. W 10:00-11:50 I H

REL V 3804y Sec. 4
Kierkegaard

—W. Proudfoot
4 points. Tu 4:10-6:00

III H

REL V 3804y Sec. 30
Life After Death

A study of Western ideas of afterlife, concentrating on ancient literature. Readings will include Gilgamesh and other ancient Near Eastern literature, the Bible, *The Odyssey*, Plato's *Phaedo*, Apuleius, *The Golden Ass*. —A. Segal
4 points. W 4:10-6:00 I H

Professors: Richard F. Gustafson (Chair), Marina Ledkovsky

Assistant Professor: Catharine Nepomnyashchy

Senior Associate: Mara Kashper

Associate: Ksana Blank

Other officers of the University offering courses in Slavic:

Professors: Robert L. Belknap, Boris Gasparov, Robert A. Maguire, Harold Segel

Associate Professors: Frank Miller, Irina Reyfman, Cathy Popkin

Adjunct Associate Professor: Myroslava Znayenko

Adjunct Assistant Professors: Anna Frajlich-Zajac, Peter Kussi, Yuriy Tarnawsky

Lecturers: Alla Arsenian, Valentina Lebedev

Associate: Ksana Blank

The Slavic Department at Barnard offers instruction in five Slavic languages and literatures, with special emphasis on Russian. The department insists upon a strong foundation in language study, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

The department offers a major and minor program in Russian, and for this purpose has an extensive array of courses designed to help the student obtain reasonable fluency in the spoken and written language, a reading ability adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries.

Foreign Language Requirement for the Degree: satisfactory completion of the second semester of the intermediate level course or any course above that level. Entering students should see Professor Frank Miller (708 Hamilton) for a placement examination: a sufficiently high grade will automatically fulfill the requirement; others will be placed accordingly. Students who speak a Slavic language natively should consult with the department chair.

REQUIREMENTS FOR THE RUSSIAN MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with Professor Gustafson as early as possible.

A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 3220

Nineteenth-Century Russian Literature

Russian V 3221

Twentieth-Century Russian Literature

Usually taken in the third year:

Russian V 3331-V 3332

Advanced Russian

Russian V 3333-V 3334

Introduction to Russian Literature

Usually taken in the fourth year:

Russian V 3443-V 3444

Fourth-Year Russian

Russian V 3595

Senior Seminar

Two electives in literature.

Independent study with any of the faculty at Barnard and Columbia can usually be arranged, and study in Russia is possible as part of the major.

REQUIREMENTS FOR THE RUSSIAN MINOR

A total of five courses beyond the second year of Russian are required for the minor. No courses in translation count toward the minor.

COURSES OF INSTRUCTION

RUSSIAN LANGUAGE

RUS V 1101x-RUS V 1102y**Elementary Russian**

Grammar, reading, composition, and conversation.
—Instructors TBA.

Required: Course V1501- V1502. Homework includes listening to tapes available in the language laboratory. No credit is given for V 1101 unless V 1102 is satisfactorily completed. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class. Department permission is required.

4 points. Sec. 1 M Tu W Th F 9:00

Sec. 2 M Tu W Th F 10:00

Sec. 3 M Tu W Th F 11:00

Sec. 4 M Tu W Th F 12:00

RUS V 1101y**Elementary Russian**

Equivalent to V 1101x, but given in Spring Term. —Instructor TBA.

4 points. M Tu W Th F 10:00

RUS V 1102x**Elementary Russian**

Equivalent to V 1102y, but given in Autumn Term. —Instructor TBA

Prerequisite: V 1101 or the equivalent.

4 points. M Tu W Th F 10:00

RUS V 1501x-RUS V 1502y**Elementary Russian Grammar Lecture**

Required weekly grammar lecture for Course V1101-V1102. —Instructor TBA

1 point. Th 12:00-12:50 or Th 2:30-3:30

RUS V 1501y**Elementary Russian Grammar Lecture**

Equivalent to V 1501x, but given in Spring term.
—Instructor TBA.

1 point. Hours TBA.

RUS V 1502x**Elementary Russian Grammar Lecture**

Equivalent to V 1502y, but given in Fall term.
—Instructor TBA.

1 point. Hours TBA.

RUS V 1201x-RUS V 1202y**Intermediate Russian**

Reading, composition, grammar review.

—V. Lebedev, F. Miller

Prerequisite: V 1102 or the equivalent. Enrollment limited. Students must sign up in Columbia Slavic Department (HAM 708) prior to first class.

Department permission required.

4 points. Sec. 1 M Tu W Th F 12:00

Sec. 2 M Tu W Th F 1:10

RUS V 1201y**Intermediate Russian**

Equivalent to V 1201x, but given in Spring term.
—Instructor TBA.

Prerequisite: V 1102 or the equivalent.

4 points. M Tu W Th F 10:00

RUS V 1202x**Intermediate Russian**

Equivalent to V 1202y, but given in Autumn term. —Instructor TBA.

Prerequisite: V 1201 or the equivalent.

4 points. M T W Th F 10:00

RUS V 3331x, RUS V 3332y**Advanced Russian**

Emphasis on conversation and composition; reading and discussion of selected texts and video tapes; lectures, papers, and oral reports. Conducted entirely in Russian. —M. Kashper, V. Lebedev
Prerequisite: Two years of college Russian and permission of the instructor. Enrollment limited.

Students must sign up in Columbia Slavic Department (HAM 708) prior to first class.

4 points. Sec. 1 M Tu W Th F 10:00

Sec. 2 M Tu W Th F 1:10

RUS V 3421x**Russian Phonetics and Intonation**

Review of principles of phonetics and intonation for advanced students. Intense drill for the development of correct speech habits. Attention to expressive reading and poetry recitation. Taught completely in Russian. —M. Kashper
Prerequisite: Three years of college Russian and permission of the instructor.

2 points. Tu Th 11:00-11:50

RUS V 3441x, RUS V 3442y**Fourth-Year Conversation and Composition**

3 points. Not offered in 1994-95.

RUS V 3443x, RUS V 3444y**Fourth-Year Russian**

Reading and discussion of selected texts from 20th-century Russian literature. Discussion of different styles and levels of language, including word usage and idiomatic expression. Written exercises, translations into Russian, composition and oral reports. —M. Kashper
Prerequisite: Three years of college Russian and permission of the instructor. The second term may be taken without the first.

4 points. M W F 11:00-12:15

RUS W 4432x**Contrastive Phonetics and Grammar of Russian and English**

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian. —F. Miller

Prerequisite: Four years of college Russian and permission of the instructor.

4 points. Tu Th 2:40-3:55, and two hours TBA.

RUS W 4433y**Specific Problems in Mastering Russian**

The Russian verb (basic stem system, aspect, locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation. —F. Miller

Prerequisite: Four years of college Russian and permission of the instructor.

4 points. Tu Th 2:40-3:55, and two hours TBA.

RUS W 4434x, W 4435y**Advanced Composition: The Writing of Expository Prose**

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian. —M. Ledkovsky

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. M W 11:00-12:15

RUS W 4910y**Literary Translation**

A workshop in literary translation from Russian into English focusing on the practical problems of the craft. Students will spend the bulk of the semester working on the translation of a literary text and discussing their work in class.

—C. Nepomnyashchy

Prerequisite: Four years of college Russian and permission of the instructor.

3 points. Tu Th 1:10-2:25

RUSSIAN LITERATURE**RUS V 3333x-3334y****Introduction to Russian Literature**

A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn.

—K. Blank

Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.

3 points. M W 4:10-5:25

III H

RUS W 4040y**Masterpieces of Russian Literature: 19th Century**

A close study in the original of representative

works by Pushkin, Lermontov, Gogol, Turgenev, Ostrovsky, Tolstoy, Dostoevsky, Leskov, Chekhov. —K. Blank

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. M W 2:40-3:55

III H

RUS W 4041y**Masterpieces of Russian Literature: 20th Century**

Prerequisite: Native or near-native knowledge of Russian and permission of the instructor.

3 points. Not offered in 1994-95.

III H

RUS V 3461x**Pushkin**

Pushkin's narrative, dramatic, and lyrical verse in the original. Classes and examination in English.

—C. Nepomnyashchy

3 points. Tu Th 10:35-11:50

III H

RUS V 3462x**Gogol**

3 points. Not offered in 1994-95.

III H

RUS V 3463y**Tolstoy**

3 points. Not offered in 1994-95.

III H

RUS V 3464y**Dostoevsky**

3 points. Not offered in 1994-95.

H

RUS V 3466y**Chekhov**

Close reading, in the original Russian, of representative short stories and one drama. Classes and examinations in English. —C. Popkin

3 points. Tu Th 2:40-3:55

H

RUS V 3465y**Russian Poetry of the 19th and 20th Centuries**

3 points. Not offered in 1994-95.

III H

RUS V 3467x**Twentieth-Century Prose Writers**

3 points. Not offered in 1994-95.

III H

RUS V 3595x**Senior Seminar**

Topic: The growth of Russian national self-awareness. Class reports culminating in a critical paper. —Staff

Prerequisite: Major status or permission of the instructor.

4 points. W 2:10-4:00

RUS V 3596x or y
Individual Research

Supervised individual research culminating in a critical paper. —M. Ledkovsky
Open to senior majors, and permission of the instructor is required.
4 points. Hours TBA.

RUSSIAN LITERATURE
IN TRANSLATION

RUS V 3220x
Nineteenth-Century Prose

The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy. —R. Maguire
A knowledge of Russian is not required.
3 points. Tu Th 10:35-11:50 III H

RUS V 3221y
Twentieth-Century Prose

Russian prose fiction from symbolism to the present: including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifonov. —C. Popkin
A knowledge of Russian is not required.
3 points. M W 2:40-3:55 III H

RUS V 3222y
Tolstoy and Dostoevsky

Major works of the two writers. —R. Gustafson
A knowledge of Russian is not required.
3 points. M W 1:10-2:25 III H

RUS V 3224y
Introduction to Russian Culture

A knowledge of Russian is not required.
3 points. Not offered in 1994-95. III

RUS V 3225y
Russian Women-Myth and Reality

A knowledge of Russian is not required.
3 points. Not offered in 1994-95. III

RUS V 3226y
Russian Culture:
The Soviet Experience and Beyond

A knowledge of Russian is not required.
3 points. Not offered in 1994-95.

RUS V 3227x
Ethnicity in Russian Literature

A knowledge of Russian is not required; permission of instructor is required.
3 points. Not offered in 1994-95. I H

Religion-Russian RER G 4006y
Modern Russian Religious Thought

A knowledge of Russian is not required; permission of instructor is required.
3 points. Not offered in 1994-95. III H

SLA V 3210x
The East European Literary Mind, 1945-1989

A knowledge of Russian is not required; permission of instructor is required.
3 points. Not offered in 1994-95. III H

CZECH LANGUAGE AND LITERATURE

Czech W 1101x -W 1102y
Elementary Czech

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —Instructor TBA.
4 points. M Tu Th 6:10-7:25

Czech W 1201x -W 1202y
Intermediate Czech

Rapid review of grammar. Readings in contemporary fiction and nonfiction, depending upon the interests of individual students. —P. Kussi
Prerequisites: Czech W 1102 or the equivalent.
4 points. M Tu Th 4:10-5:25

Czech W 3333x
Readings in Czech Literature, I

Extensive readings in Czech literature in the original, with emphasis depending upon the needs of individual students. —P. Kussi
Prerequisite: Czech W 1202 or the equivalent.
3 points. Tu Th 1:10-2:25

Comparative Literature-Czech W 4030y
Post-war Czech Literature

A survey of post-war Czech fiction and drama. Knowledge of Czech is not required. Parallel reading lists available in translation and in the original. —P. Kussi
3 points. Tu Th 1:10-2:25 III H

POLISH LANGUAGE AND LITERATURE

Polish W 1101x - 1102y
Elementary Polish

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —A. Frajlich-Zajac and Staff
4 points. M W 4:10-5:25 and F 1:10-2:25,

Polish W 1201x-1202y
Intermediate Polish

Rapid review of grammar; readings in contemporary nonfiction and fiction, depending on the interests of individual students. —A. Frajlich-Zajac and Staff

Prerequisite: Polish W 1102 or the equivalent.
 4 points. M W F 2:40-3:55

Polish W 3101x-3102y
Advanced Polish

Extensive readings from 19th- and 20th-century texts in the original. Both fiction and nonfiction, with emphasis depending on the interests and needs of individual students. —A. Frajlich-Zajac and Staff

Prerequisite: Polish W 1202 or the equivalent.
 4 points. M W F 11:00-12:15

Polish G 4050x
Contemporary Polish Poetry

A survey of the major contemporary Polish poets, schools and genres. Lectures, assigned readings, and class discussion of poems. Additional reading list and anthology selections in English for supplemental reading and for comparison.

—A. Frajlich-Zajac
 3 points. Th 4:10-6:00

H

SERBO-CROATIAN
LANGUAGE AND LITERATURE

Serbo-Croatian W 1101x-1102y
Elementary Serbo-Croatian

Essentials of the spoken and written language. Prepares students to read texts of moderate difficulty by the end of the first year. —Instructor TBA.
 4 points. M Tu Th 6:10-7:25

Serbo-Croatian W 3333x-3334y
Readings in Serbo-Croatian Literature

Readings in Serbo-Croatian literature in the original, with emphasis depending upon the needs of individual students. —Instructor TBA.

Prerequisite: Serbo-Croatian W 1102 or the equivalent.
 3 points. Tu Th 4:10-5:25

Serbo-Croatian W 3998x or y
Supervised Individual Research

—Staff
 2 points. Hours TBA.

UKRAINIAN
LANGUAGE AND LITERATURE

Ukrainian W 1101x-1102y
Elementary Ukrainian

A basic course for students with little or no knowledge of Ukrainian: essentials of grammar, basic oral expression, with emphasis on drills, reading, writing, and listening comprehension. Reading of simple texts, discussion of readings in Ukrainian. Conducted increasingly in Ukrainian.

—M. Znayenko
 3 points. M W 6:10-7:25

Ukrainian W 1201x-1202y
Intermediate Ukrainian

Intensive rapid review of grammar, with some emphasis on conversational skills. Strong emphasis on reading/translating skills, using selections from contemporary Ukrainian periodicals.

—Instructor TBA.
Prerequisite: Ukrainian W 1102 or the equivalent.
 3 points. M W 4:10-5:25

Ukrainian W 4040x
Twentieth-Century Ukrainian Prose

A survey of the major works from the turn of the century through the 1990's, with a brief overview of 19th-century Ukrainian prose and its connection to later developments. —Y. Tarnawsky
Prerequisite: Reading knowledge of Ukrainian or fluency in another Slavic language.
 3 points. Tu Th 6:10-7:25

Ukrainian W 4050y
Contemporary Ukrainian Poetry

A survey of the main movements in Ukrainian poetry, both in Ukraine and in the diaspora, since the 1950's, in the context of Ukrainian and world literatures. Lectures in English with some texts in Ukrainian. —Y. Tarnawsky
Prerequisite: Reading knowledge of Ukrainian or fluency in another Slavic language. Permission of the instructor rrequired.

3 points. Tu Th 6:10-7:25

Associate Professor: Jonathan Rieder (Chair)

Assistant Professors: Lynn Chancer¹, Kelly Moore

Adjunct Professors: Nathalie Friedman, Theresa Rogers

Other officers of the University offering courses listed below:

Professors: Priscilla Ferguson, Herbert Gans, Eugene Litwak, Marie Ruggie

Associate Professor: Hiroshi Ishida

Assistant Professors: J. Hartman, Martina Morris, Kathy Neckerman, J. Olick

¹Absent on leave 1994-95.

Sociology aims to uncover the theoretical principles that illuminate social life. In pursuing this goal, sociology exhibits a diversity of perspectives. This pluralism is one source of the discipline's vitality. Some scholars reach out to the sciences for their model of sociological inquiry; others look to more humanistic and historical endeavors for their inspiration and identity. But in all its different forms, the discipline as a whole strives to develop rigorous methods, both qualitative and quantitative, for analyzing social life.

Sociology involves more than the accumulation of theory and method for its own sake. Perhaps above all else, sociology is devoted to the exploration of actual social life in all its variousness. Thus it is that sociology majors examine the dynamic processes through which human beings express their social being: cooperation, conflict, power, exchange, morality, symbolism, domination, dependency, deviance, social control, and violence. Students also study the forms to which these processes give rise: social networks, small groups, face-to-face interaction, subcultures, families, gender divisions, religion, popular and high culture, social class, structures of race and ethnicity, bureaucracy, social movements, professions, and the state. The Barnard Department of Sociology tends to focus on these forms and processes as they unfold in the United States. At the same time, we seek to guard against provincialism by grounding our analyses comparatively and exploring the social life of less developed, developing, and other mature industrial societies.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of 10 courses is required for the major, including

SOC BC 1003

Introduction to Sociology

SOC BC 3082

Junior Colloquium

SOC V 3211

Quantitative Methods

(not later than the junior year)

SOC BC 3087-BC 3088

Individual Projects for Seniors

and at least five other courses selected in consultation with the major adviser. Sociology BC 3211 should be taken no later than the junior year.

There is no major examination. To graduate, a student must complete, to the satisfaction

of her instructor in BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including SOC BC 1003, and four courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1003x

Introductory Sociology

An introduction to the sociological imagination which focuses on group influences on the individual (conformity, social structure and personality, community and deviance); the institutional arrangements of class, gender, ethnicity, and bureaucracy; the role of social movements and technology in social change. —Kelly Moore
3 points. M W 2:40-3:55

S

SOC V 1005x

Medical Care in Twentieth-Century America

3 points. Not offered in 1994-95.

S

SOC V 1205x

Evaluation of Evidence

A non-technical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments).

3 points. Sec.1: Tu Th 2:40-3:55 —M. Morris

Sec.2: Hours TBA —J. Hartman

S

Note: One introductory course in sociology suggested for all 3000-level courses.

SOC BC 3082y

Junior Colloquium: Perspectives on Social Order

An examination of the major theoretical frameworks sociologists use to analyze power: symbolism, conflict, inequality, exchange, consensus, deviance, organization, values, and affiliation. Students will complete a prospectus that outlines the substantive topic, methodological approach, and theoretical concerns of their senior essays. —J. Rieder
Prerequisite: SOC BC 1003 or permission of the instructor.

4 points. Tu 2:10-4:00

S

SOC BC 3087x-3088y

Individual Projects for Seniors

The instructor will supervise the writing of long papers involving some form of sociological research and analysis. —N. Friedman
Required of all senior majors.
4 points. W 4:10-6:00

SOC V 3100x

Introduction to Social Theory

The rise and transformation of modern society in the 19th and 20th centuries. "Classical" literature such as Marx, Durkheim and Weber will be read. Selected topics: the relationship between individual, society, and polity; gender relations, class, and status relations; moral and instrumental action. —Instructor TBA.

3 points. Tu Th 11:00-12:15

S

SOC BC 3115x

Feminist Theory

An analysis of the theoretical assumptions and political implications of liberal, radical, Marxist, and socialist variants of first and second-wave feminist theory, including recent works in psychoanalytic and post-modern feminism. The course also considers the implications of such feminist arguments for debates within contemporary and classical sociological theory. —L. Chancer

Permission of the instructor required. Enrollment limited to 15 students.

4 points. Not offered in 1994-95.

S

SOC V 3200y

Gender, Class and Race

An examination of the critical role that gender, class, and race play in social life, and their relationship to inequality, community, and culture. The course will focus on reactions to and perceptions of difference in the spheres of family, work, sexuality, and politics. —L. Chancer

3 points. Not offered in 1994-95.

S

SOC V 3211y

Quantitative Methods

An introduction to statistical methods emphasizing their application to practical research problems.

Topics include frequency distributions, cross-tabulations and correlation, basic concepts of probability, hypothesis testing, and the analysis of variance.

Students will learn to execute basic statistical analyses on a personal computer. —K. Moore
3 points. M W 1:10-2:25 Lab M 2:40-3:55

SOC V 3213y

Culture in Contemporary America

An analysis of the values and meanings that form American pluralism, the communities that create and consume culture, and the organizations that produce and distribute culture. Examples come from popular and elite culture: American individualism, rhythm and blues, Christian fundamentalism, advertising, abstract art, Orthodox Judaism, abortion politics, Reaganism, television comedy. —J. Rieder

3 points. Tu Th 10:35-11:50

S

SOC V 3216x

Organizations in Modern Society

An exploration of the growth of large organizations in politics, business, government, and culture; the structure of the corporation; not-for-profit organizations (art museums, universities); organizational cultures; dilemmas of hierarchy, power and alienation; the tension between organizations and democracy; left and right critiques of the organizational state. —K. Moore

3 points. Not offered in 1994-95.

S

SOC 3221x

Social Disorganization: Deviance and Social Control

A study of different theoretical approaches to deviance and an analysis of important empirical research on various forms of deviant behavior.

Crime is considered within the broader context of social deviance. —P. Read

3 points. M W 4:10-5:25

S

SOC 3222y

Criminology

Building upon theoretical perspectives studied in SOC W 3221x, theories and research relating to criminal behavior are examined. Topics include the comparative study of crime, juvenile delinquency, organized crime, and public policies to control and prevent crime. —P. Read

3 points. M W 4:10-5:25

S

Sociology SOC V 3225y

Sociology of Education

Social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization and public versus private schooling. —K. Neckerman

3 points. M W 1:10-2:25

SOC V 3920x

Science and Society

The social factors that shape the practice of science, the development of knowledge, and the impact of both on society. Topics include: the social construction of scientific facts; the institutional structure of the science world; feminist and other critiques of scientific "objectivity"; the politics of research on AIDS, nuclear power, and race. —K. Moore

3 points. M W 10:35-11:50

S

SOC V 3228x

Sociology of Medicine

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of the medical profession and of the hospital; problems and prospects of health delivery systems.

—T. Rogers

3 points. M W 2:40-3:55

S

SOC V 3235y

Social Movements

Social movements and the theories social scientists use to explain them, with emphasis on the American civil rights and women's movements. Topics include: theories of participation, the personal and social consequences of social movements, the rationality of protest, the influence of ideology, organization, and the state on movement success, social movements, and the mass media. —K. Moore

3 points. M W 10:35-11:50

S

SOC V 3237y
Personal Relations in History
Impact of modern culture, market society, and bureaucracy on the ideals and practices of personal relations, with special emphasis on friendship. Trust, loyalty, sincerity, intimacy, and their opposites in ancient society, the Middle Ages and Renaissance, and contemporary society. Readings from literature, history, and anthropological and sociological research and theory. —A. Silver
Not recommended for freshmen. Permission of the instructor is required.
3 points. Not offered in 1994-95. S

SOC W 3238x
Sociology of Everyday Life
3 points. Not offered in 1994-95.

SOC W 3240x
Introduction to Japanese Society
3 points. Not offered in 1994-95.

SOC V 3270x
Sociology of Mass Media and Popular Culture
Contemporary forms of mass media and genres of popular culture, including print and broadcast journalism, television, movies, popular literature, fashion, and music. Issues include the rise of mass society; the role of organizations and institutional environments in shaping the production of mass culture; the role of mass culture in producing and reproducing basic social categories, like racial and gender stereotypes; how the media shapes politics. —J. Olick
3 points. M W 2:40-3:55 S

SOC V 3275y
Health Care Crises: U.S. in Comparative Perspective
Health, illness, treatment, and the organization and delivery of care. Includes questions of social policy, such as differential distribution and utilization of health care, alternative forms of financing, and ethical issues in the use of technology. Examination of the changing relationship among consumers, providers and payers of services. —M. Ruggie
3 points. M W 10:35-11:50 S

SOC V 3310x
Gender and Deviance
3 points. Not offered in 1994-95.

SOC V 3320x
Social Problems
A consideration of the historical evolution of American theories of social problems and the application of theoretical frameworks to specific problems such as poverty, homelessness, crime, and race- and gender-based discrimination. —L. Chancer
3 points. Not offered in 1994-95.

SOC V 3331y
Creation and Career in Art Worlds
3 points. Not offered in 1994-95.

SOC V 3555y
Sociology of Family Institutions
An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social policy and the future of the family. —L. Chancer
3 points. Not offered in 1994-95. S

SPANISH AND LATIN AMERICAN CULTURES

208 Milbank Hall

Chair: 854-2061

Language Coordinator: 854-5422

Administrative Assistant: 854-5417

Professors: Alfred Mac Adam, Mirella Servodidio (Chair), Marcia L. Welles

Assistant Professors: Isolina Ballesteros, Licia Fiol-Matta, Alessandra Luiselli

Senior Lecturers: James Crapotta (Language Coordinator), Flora Schiminovich

Lecturers: Maria Negroni, Agueda Rayo

Associate: Vilma Bornemann Caraley¹

¹Absent on leave 1994-95.

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Latin America.

Foreign Language Requirement for the Degree: First-year students with prior training in Spanish who wish to satisfy Barnard's foreign language requirement in Spanish will be placed in the appropriate language course on the basis of either their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others must complete BC 1204. Spanish-speaking students may take BC 1208x instead with permission of the instructor. Transfer students should consult the department chair.

The Spanish Club facilitates joint faculty-student projects. The Club sponsors discussion sessions, and films and lectures by writers, artists and visiting scholars.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Spanish subdivision of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

There are three majors available to prospective students in the department: **I. Language and Literature**, **II. Spanish Studies**, **III. Latin American Studies**. Each option requires a Senior Essay (BC 3999x or y *Independent Study for Majors*).

I. Language and Literature: This program emphasizes a knowledge of Spanish language and the literature of Spain and Latin America. The major consists of 11 courses.

The six required courses are:

BC 3115 *Latin-American Culture I*

BC 3121 *The Literature of Latin America: From the Colonial Period to Modernism*

BC 3123 *Spanish Literature in the Middle Ages and the Early Renaissance*

BC 3127 *Don Quijote*

BC 3125 *The Struggle of Two Spains*

BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Five electives of (3 points each) to be chosen from literature and culture courses at the 3000 level (in Spanish).

Requirements for the Minor: Six Courses: BC 3121, BC 3123, BC 3127 and three electives (of 3 points each) from the language and literature options at the 3000 level (in Spanish).

II. Spanish Studies: This program emphasizes the literature, history, and culture of Spain. The major consists of 12 courses (eight within the Department of Spanish, four within other disciplines).

The five required courses are:

- BC 3123 *Spanish Literature in the Middle Ages and the Early Renaissance*
- BC 3124 *Literature of the Golden Age*
- BC 3125 *The Struggle of Two Spains*
- BC 3129 *The Culture of Spain*
- BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Three electives of 3 points each to be chosen from the Peninsular literature and culture courses at the level 3000 level (in Spanish). BC 3004, Section 2, *Language and World View: Special Issues in Contemporary Spain* and BC 3131 *Civil War and Post-War Spain: Myth and Reality Through Film, History, and Literature* are strongly recommended.

Four courses from offerings in the Social Sciences or Humanities that relate to Spain and define a special field of interest (to be chosen in consultation with the Major adviser). History BC 1011 and 1012 *Introduction to European History* are strongly recommended.

III. Latin American Studies: This program emphasizes the literature, history, and culture of Latin America. The major consists of 14 courses (eight within the Department of Spanish; six within other disciplines).

The four required courses are:

- BC 3115 *Latin American Culture I*
- BC 3116 *Latin American Culture II*
- BC 3121 *The Literature of Latin America: From the Colonial Period Through Modernism*
- BC 3999x or y *Independent Study for Majors* (thesis topic and adviser to be selected)

Four electives of 3 points each to be chosen from the 3000 level, two of which must pertain to specific regions of Latin America (BC 3143 *Literature of the Spanish Caribbean*; BC 3117 *Literature of the Southern Cone*; BC 3118 *Contemporary Mexican Literature*; BC 3119 *Literature of the Andes*; BC 3120 *Twentieth-Century Puerto Rican Literature*).

Six courses in the Social Sciences or Humanities that pertain to Latin America and define a special field of interest (to be selected in consultation with the major adviser).

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section; sign-up sheets on Departmental Bulletin Board.)

4 points. Sec. 1 M Tu W Th 10:00
 Sec. 2 M Tu W Th 11:00
 Sec. 3 M Tu W Th 3:10
 Sec. 4 M Tu W Th 3:10

SPA V 1101x-1102y

Elementary First-Year Course

An introductory course to Spanish as a vehicle for oral and written communication. Emphasis on speaking, listening comprehension, reading and writing. Fundamentals of grammar. Tape recorder required for homework on audio tapes.

—Staff

4 points. Sec. 2 M-F 10:00

Sec. 3 M-F 11:00

SPA BC 1103x

Intensive Review of Elementary Spanish

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. To be followed by BC 1203y. —Staff

SPA BC 1203x, y

Intermediate Course, Part I

Further development of spoken and written communication skills. Review of grammar and syntax. Discussion and analysis of short literary texts.

Some linguistic and cultural analysis of contemporary Spanish videos and films. —Staff

Prerequisite: V 1102 or BC 1103 or the equivalent.

4 points. x: Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 11:00

Sec. 3 M Tu W Th 1:10

Sec. 4 M Tu W Th 3:10

y: Sec. 1 M Tu W Th 10:00

Sec. 2 M Tu W Th 11:00

Sec. 3 M Tu W Th 1:10

SPA BC 1204x, y

Intermediate Course, Part II

Review of more advanced grammar points. Readings, discussions and analysis of important works by Latin American authors. Analysis and discussions of Latin American film. —Staff

3 points. x: Sec. 1 M W F 10:00

Sec. 2 M W F 11:00

Sec. 3 M W 1:10

Sec. 4 Tu Th 1:10

y: Sec. 1 Tu Th 10:35

Sec. 2 M W F 10:00

Sec. 3 M W F 11:00

Sec. 4 Tu Th 1:10

SPA BC 1206x, 1207y

Intermediate Conversation

Designed to advance oral and listening proficiency and to increase vocabulary within a wide range of daily and contemporary topics.

Materials include readings, cassettes and video tapes. Activities include role-playing, interviews, small group activities, and oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff

Recommended parallel: Spanish BC 1203, BC 1204.

Prerequisite: V 1101x-1102y or the equivalent. Not open to native speakers.

2 points. M W 12:00-1:00

SPA BC 1208x

Spanish for Spanish-Speaking Students

Designed for native and non-native Spanish-speaking students who have oral fluency beyond the intermediate level, but have had no formal language training. Introduction to Spanish grammar with special emphasis on complex sentence structure and syntax. Writing, reading and building new vocabulary. May be used to satisfy language requirement with permission of the instructor.

—M. Negroni

Prerequisite: Oral fluency.

3 points. Tu Th 2:40-3:55

SPA BC 3107x, 3108y

Advanced Oral Spanish

Designed to advance oral and listening skills through contact with advanced authentic materials such as newspapers, news broadcasts, films and videos.

Special emphasis on idiomatic expressions. Discussion and debates around controversial contemporary issues. Oral reports. Some visits to Hispanic cultural events in New York City will be required. —Staff

Not open to native speakers.

2 points. M W 12:00-1:00

SPA BC 3004x, y

Language and World View

Reinforcement and development of modern language skills through focused attention on contemporary socio-political issues of Spain and Latin America. Useful for students in Foreign Area Studies, Political Science, History, and Economics. *Enrollment limited to 20 students. Sign-up sheets on departmental bulletin board.*

3 points.

x. 1. Latin American Women Today:

Facts and Fallacies

An investigation of how language, history, ideology, popular cultures, and politics shape the experience of Latin American women. Students will reinforce language skills and improve their competence in formal argument in class debates and written presentations. Materials will be drawn from essays, newspapers, films, soap operas, advertising, popular music, comic strips, and Indian legends. —F. Schiminovich
M W 1:10-2:25

y. 2. Special Issues in Contemporary Spain

Features films and readings from newspapers, magazines, and journals centering on the issues confronting contemporary Spain: the transition to democracy and modernization, terrorism, regional autonomy, feminism, and sexual identity. Readings, discussions, and papers designed to improve oral and written proficiency. —I. Ballesteros
Tu Th 2:40-3:55

LITERATURE AND CULTURE COURSES

For non-majors, all courses except BC 3129, BC 3115, and BC 3116 will count toward the distribution requirement. All departmental courses are conducted in Spanish unless otherwise stipulated. The prerequisite for all literature and culture courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chair.

INTRODUCTORY COURSES

(Enrollment limited to 15 students. Sign-up sheets on Departmental Bulletin Board.)

SPA BC 3109x

Introduction to Literary Analysis

Instruction in techniques of literary analysis applied to works representing different genres. Development of a critical vocabulary. Analysis of style, structure and content. Introduction to theories of criticism. —M. Servodidio

Designed to acquaint students with close reading of a limited number of major literary texts. Emphasis is on

the analysis of language and genre and serves as a bridge between intermediate language courses and more advanced courses in literature and culture.

3 points. M W 11:00-12:15

H

ADVANCED COURSES

LATIN AMERICA

SPA BC 3115x

Latin American Culture I

Latin-American history, society and art, from the time of the great Indian empires to the late 19th century. —A. Luiselli

3 points. M W 2:40-3:55

III

SPA BC 3116y

Latin American Culture II: A Socio-historical Approach

A revisionist examination of Latin American history, politics and society. From the aftermath of the Wars of Independence (1824-1880) to contemporary Latin America in the context of its modernization and dependency. —L. Fiol-Matta

3 points. M W 11:00-12:15

III

SPA BC 3121y

The Literature of Latin America: From the Colonial Period Through Modernism

From the flowering of baroque literature during the colonial period, with special emphasis on the writings of the Sor Juana Inés de la Cruz, to the renaissance of Spanish-American writing during the period of modernism. —A. Luiselli

3 points. Tu Th 1:10-2:25

III H

SPA 3141x

The Boom: Spanish-American Novel, 1962-1970

A close readings of the novels that place Spanish America in the mainstream of worldwide literary production during the sixties. Authors include: Fuentes, Cortázar, Cabrera Infante, Vargas Llosa, Puig, and Donoso. —A. Mac Adam

Prerequisite: permission of the instructor.

3 points. Tu Th 4:10-5:25

SPA 3142y

Film-Literature Relations in Modern Latin American Narrative

Intertextual relations between film and literature. Authors and film makers include: Gabriel García Márquez, Laura Esquivel, Borges, María Luisa Bemberg, Vargas Llosa, and Fina Torres.

—F. Schiminovich

Prerequisite: Intermediate Spanish II or equivalent.

3 points. Tu Th 4:10-5:25

SPA BC 3143y

Literature of the Spanish Caribbean

A study of works from the Spanish-speaking islands of the Caribbean, Cuba, the Dominican Republic, and Puerto Rico, in order to unravel the cultural traits, historical patterns, and politico-economic realities that these islands may or may not have in common. —L. Fiol-Matta

3 points. M W 2:40-3:55

H

SPAIN

SPA BC 3124x

Literature of the Golden Age

A study of the poetry, theatre, and narrative of a society in crisis, as Spain confronts both Islam and the Protestant north, and deals with the problems of rural and urban decline. Authors include Cervantes, Lope de Vega, Tirso de Molina, and Calderón. —M. Welles

3 points. M W 1:10-2:25

H

SPA BC 3129x

The Culture of Spain

History and culture of Spain: origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contributions to Western culture. Use of audio-visual materials. —M. Welles

3 points. Tu Th 2:40-3:55

SPA BC 3131x

Civil War and Post-War Spain: Myth and Reality Through Film, History and Literature

Contemporary Spanish films serve as a point of departure for the study of the Civil War and Franco periods as both historical fact and myth. Includes an analysis of its representation in memoirs and literary works and its significance in light of Spain's recent political transformation.

—I. Ballesteros

3 points. Tu Th 1:10-2:25

H

SPA BC 3132y

Contemporary Literature: From the Avant-garde to Social Realism and After

Literary trends from Garcia Lorca and the Generation of 1927 through the post-Civil War authors, to the current generation of *novísimos*. —M. Servodidio.

3 points. M W 1:10-2:25

H

SPA BC 3134x

Marriage and Adultery in 19th-Century Spanish Fiction

A consideration of the conflicting interests of 19th-century society as represented through the themes of marriage and adultery: the desire for social stability vs. the potentially subversive drive

for freedom and self-affirmation. The roles of women, class, culture, and religion emphasized in works by Galdós, Clarín, Caballero and others. —M. Servodidio.

3 points. M W 2:40-3:55 H

SPA BC 3127y

Don Quijote

A study of Cervantes' masterpiece, concentrating on the narrative models available to him and his own creation of the "Novel." Readings also include selected *Novelas Ejemplares* and critical studies.

—M. Welles

3 points. Tu Th 1:10-2:25 III H

COURSES IN ENGLISH

SPA BC 3203y

20th-Century Women Poets of the Americas: Kindred Voices

Cross-cultural themes, images and poetics in women poets of North America and Latin America. Discussion topics include: the search for a matrilineal poetic ancestry; the revival of the goddess; the poetics of subversion. Emphasis on African American, Native American and Latina authors like Ntozake Shange, Sonia Sánchez, Mary Tallmountain. Also Gabriela Mistral, H.D., Rosario Castellanos, Claribel Alegria, Adrienne Rich. —A. Rayo

3 points. Tu Th 2:40-3:55 H

SPW BC 3204x

Latina Literature

A study of fiction, poetry and prose (essayistic and autobiographical) written by Latinas in the United States. Topics include bilingualism and biculturalism; migration and crossing, "return" and "home"; community, culture, and nation; identity; and women's strategic positioning in the literary and political discourses of the Latino movement. —L. Fiol-Matta

3 points. Tu Th 2:40-3:55 I H

SPW BC 3205y

Hispanic Gay and Lesbian Representations in the Literatures of the Americas

Lesbian and gay images and issues in literary and theoretical writings of Latin American authors and of the United States. Hispanic and North American constructions of homosexual/heterosexual and male/female, forms of erotic desire, the relationship of politics, sexuality, and race. Authors included Puig, Arenas, Allende, Peri Rossi, Anzaldúa, and Moraga. Readings and discussions in English.

—J. Crapotta

3 points. Tu Th 4:10-5:25 I H

SPA BC 3265y

Latin American Literature in Translation

A study of contemporary Latin American narrative; its origins and apotheosis. Readings include Machado de Assis, Borges, García Márquez, Puig, and others. —A. Mac Adam

3 points. Tu Th 10:35-11:50 I H

COURSES NOT OFFERED IN 1994-95

Language

SPA BC 1001x-1002y

Intensive Elementary Course

SPA BC 3004x, y

Languages and World View

x. 3. Hispanics in the United States

SPA BC 3008

Language and Film: Issues in Contemporary Spanish Cinema

SPA BC 3106

Advanced Composition and Translation

SPA BC 3096

Poetry Writing in Spanish

SPA BC 3110

An Introduction to Spanish Theater

SPA BC 3117

Literature of the Southern Cone: the Dialectics of Fantasy and Reality

SPA BC 3118

Contemporary Mexican Literature: The Interplay of History and Narrative

SPA BC 3119y

Literature of the Andes: Revolution and Identity

SPA BC 3120x

Twentieth-Century Puerto Rican Literature

SPA BC 3123y

Spanish Literature in the Middle Ages and the Early Renaissance

SPA BC 3125x

The Struggle of Two Spains

SPA BC 3126

Archetypal Patterns in Contemporary Women's Fiction

SPA BC 3128

Eighteenth-Century Spain: Dreams of Reason

SPA BC 3130

García Lorca: The Poet in His Contexts

Spanish-Women's Studies SPW BC 3135y
Reading for Difference: Lesbian and Gay
Themes in Hispanic Literature and Film

SPA BC 3136y
Experimental Texts by Latin American Women

Courses in English

SPA BC 3087
Spain of the Habsburgs: A Culture in Crisis

SPA BC 3201
Modern Latin-American Narrative

SPA BC 3204
Literature of the Americas

SPA BC 3905
Crosscurrents in the Art and Literature of
Spain 1559-1800

FOR SPANISH AND PORTUGUESE
COURSES AT COLUMBIA UNIVERSITY,
CONSULT COLUMBIA UNIVERSITY
BULLETIN.

Officers of the University offering courses in Statistics:

Professors: Ioannis Karatzas¹, Joseph Fleiss (School of Public Health), C. Heyde², David H. Krantz (Psychology), Paul Meier (Chairman)

Associate Professors: Victor de la Peña, Bruce Levin (School of Public Health), Shaw-Hwa Lo (School of Public Health), Karl Sigman (IEOR), David Yao (IEOR)

Assistant Professors: Melissa Begg (School of Public Health), Jaksa Cvitanic, Guillermo Gallego (IEOR), Marianthi Markatou, Myonghee Paik (School of Public Health), Priya Wickramaratne (School of Public Health)

Adjunct Assistant Professors: Demissie Alemayehu

¹Absent on leave Autumn term.

²Absent on leave Spring term.

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult your respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major including:

Mathematics V 1101, V 1102 and V 2010, or their equivalents

Statistics-IEOR W 3658 or STAT IEOR W 4105, Statistics W 3659, W 4312, and W 3701

One approved course in computer science beyond the introductory level and five additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least two of which must be statistics courses numbered above 4200

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in Statistics requires a minimum of six courses, five in statistics including: W 3658 (or W 4105), W 3659, W 4312, and any statistics course numbered above 4200, and one approved course in Computer Science.

COURSES OF INSTRUCTION

STA W 1001x, y**Introduction to Statistical Reasoning**

Designed for students in non-quantitative fields. Probability concepts and basic theory of sampling distributions are used as aids to quantitative reasoning and data analysis, with illustrations drawn mainly from the social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters.

—x: V. de la Peña, y: TBA.

Prerequisite: some high school algebra.

3 points. x: Tu Th 10:35-11:50

y: Tu Th 6:10-7:25

STA W 1111x, y**Introduction to Statistics**

Designed for students in fields (such as economics) that emphasize quantitative methods. Probability concepts and basic theory of sampling distributions are used as aids to quantitative theory and data analysis, with illustrations drawn from the natural and social sciences. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computer for data management, evaluation of models, and estimation of parameters.

Prerequisite: High school mathematics through intermediate algebra. Enrollment limited to 35 per section.

3 points. x: Sec. 1, 2 Tu Th 10:35-11:50 —TBA

Sec. 3 Tu Th 6:10-7:25 —J. Cvitanic

Sec. 4 Tu Th 6:10-7:25 —TBA

y: Sec. 1, 2 Tu Th 10:35-11:50 —TBA

Sec. 3 Tu Th 6:10-7:25 —P. Meier

Sec. 4 Tu Th 6:10-7:25 —TBA

STA W 1211x, y**Introduction to Statistics B**

Designed for students in fields that emphasize quantitative methods. Probability concepts and basic theory of sampling distribution are used as aids to quantitative reasoning and data analysis, with illustrations drawn from the natural and social sciences. Introduction to use of computers for data management, graph construction, evaluation of regression models, and estimation of unknown parameters. Topics of Statistics W 1111 are covered in greater depth. —M. Markatou

Prerequisite: Calculus I

3 points. x, y: Tu Th 10:35-11:50

STA W 2201y**Introduction to Data Analysis**

Designed for students in non-quantitative fields. The role of statistical methods within the realm of scientific research methods. Utility of statistics to describe and analyze human, societal, and natural phenomena. Fundamental stages of methodological statistics: identification of objectives, information collection, organization, analysis and interpretation of data. Case studies using a computer statistical package. —D. Krantz

Prerequisite: STA W 1001 or the equivalent.

3 points. M W 10:35-11:50

STA-IEOR STI W 3600x**Introduction to Probability and Statistics**

Fundamentals of probability and statistics used in engineering and applied science. Probability: random variables, useful distributions, expectations, laws of large numbers, central limit theorem. Statistics: point estimations, confidence intervals; hypothesis tests, linear regressions, ANOVA. —M. Klein

Prerequisite: A working knowledge of calculus.

4 points. Hours TBA.

STA-IEOR STI W 3658x**Probability**

Fundamentals of probability theory.

Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem. —D. Yao

Prerequisite: a working knowledge of calculus.

3 points. Hours TBA.

STA W 3659y**Statistical Inference**

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, natural and social sciences. —J. Cvitanic

Prerequisite: Statistics-IEOR W 3600 or W 3658 or the equivalent.

3 points. Tu Th 6:10-7:25

STA W 3662x (W 4312)

Regression and Analysis of Variance

Simple linear regression. Multiple regression. Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way factorial designs. Multiple comparisons. Components of variance models. Elements of experimental design; randomized blocks and Latin squares. —D. Rabinowitz
Prerequisite: Statistics W 3659 or the equivalent, linear algebra, and computer programming.
 3 points. W F 4:10-5:25

STA W 3701y

Introduction to Data Analysis

Data analysis using a computer statistical package and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format. —D. Alemayehu
Prerequisite: A one-term introductory statistics course.
 3 points. M W 6:10-7:25
 Two hours of laboratory TBA.

STA W 4011x, y

Statistical Methods for Social Research

An introduction to statistical reasoning. For students who plan to conduct or to evaluate social science research; no background in statistics or computers is assumed. Probability concepts and basic theory of sampling distribution are used as aids to quantitative theory and data analysis. Problems of data quality and causal inference; graphical and numerical summaries of data; statistical modeling of relationships between variables; use of computers for data management, evaluation of models, and estimation of parameters.
Prerequisite: Intermediate algebra.
 3 points. x: Tu Th 6:10-7:25 —Instructor TBA
 y: Tu Th 10:35-11:50 —M. Begg

STA-IEOR STI W 4105x, y

Probability

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong laws of large numbers; central limit theorem.
Prerequisite: A working knowledge of calculus. Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior-undergraduate or M.A. level.
 3 points. x: Tu Th 6:10-7:25 —C. Heyde
 y: Tu Th 6:10-7:25 —V. de la Peña

STA W 4413y

Nonparametric Statistics

Given in alternate years. Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation. Introduction to sequential statistical procedures. Applications to quality control and clinical trials. —P. Wickranaratne
Prerequisite: STA W 3659
 3 points. M 1:00-2:30, Th 2:30-4:00

STA W 4415y

Multivariate Statistical Inference

Multivariate normal distribution; multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis. —M. Paik
Prerequisite: Statistics W 3662/4312
 3 points. M 2:35-3:50, Th 1:40-2:25

STA W 4543x

Theory and Analysis of Lifetime Data

Survival distributions, types of censored data, estimation for various survival models, nonparametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data. —W.Y. Tsai
Prerequisites: Statistics W 4107 or the equivalent.
 3 points. Tu Th 11:00-12:30

STA-IEOR STI W 4150x, y

Introduction to Probability and Statistics

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression.
Prerequisite: A working knowledge of calculus.
 3 points. x: M W 6:10-7:25 —D. Alemayehu
 y: Hours TBA. —G. Gallego

STA W 4220y

Analysis of Categorical Data (PH 8120)

A thorough study of the fourfold table, with applications to epidemiological and clinical studies.

Significance versus magnitude of associations, estimation of relative risk; matching cases and controls; effects, measurement, and control of misclassification errors; combining evidence from many studies. —Instructor TBA.

Prerequisite: PH 6104 and PH 6400 or their equivalents and permission of the instructor.

3 points. W 1:30-4:00

STA W 4315y

Linear Regression Models (PH 8111)

The theoretical background underlying regression techniques. Simple regression. Bivariate normal distribution and correlation. Multiple and polynomial regression. —D. Rabinowitz

Prerequisite: A working knowledge of calculus.

3 points. x, y: Tu Th 10:35-11:50

STA W 4325x

Generalized Linear Models

Identical to *Public Health P 8121*. Topics include log-linear models for count data, analysis of ordered categorical data, analysis of continuous data where the variability increases with the mean, survival analysis, and model checking.

—M.H. Paik

Prerequisite: Linear Models: STA W 4312 or W 4315

3 points. Tu Th 1:30-3:00

STA W 4327y

Design of Experiments (PH 8116)

Principles in the design and analysis of controlled experiments: Latin squares, incomplete block designs, crossover designs, fractional factorial designs, confounding. —J. Fleiss

Prerequisite: PH 8111 or the equivalent and permission of the instructor.

3 points. F 9:30-12:00

STA-IEOR STI W 4606x, y

Elementary Stochastic Processes

Review of elements of probability theory. Poisson process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time Markov chains and applications to queuing theory, inventory models, branching processes.

Prerequisite: Statistics-IEOR W 3658,

Statistics-IEOR W 4105 or the equivalent.

3 points. x: M W 2:10-3:55 —Instructor TBA.

y: Tu Th 4:10-5:25 —Instructor TBA.

STA C 3997x or y

Independent Research

The student participates in the current research of a member of the department and prepares a report on the work. —Staff.

Prerequisite: The permission of a member of the department. May be repeated for credit.

3 points.

Professor: Denny Partridge (Chair, Alice B. Pels Professor of Theatre, and Director of the Minor Latham Playhouse)

Adjunct Associate Professor: Elizabeth Swain

Lecturers: Patricia Denison (English), Steve Friedman, Mark Sussman

Associates: Assurbanipal Babillo, Andy Gale, Patricia Hernandez, Susan Jain, Vanessa James, Sara Lampert-Hoover, Hua Wen-yi

Technical Assistant: Douglas Parky Lee

Other officers of the University offering Barnard courses

Professor: Andrei Serban

The study of theatre at Barnard is the study of world theatre. We are part of that world. We recognize that theatre in all cultures borrows from other cultures, and has analogues across time. A working knowledge of how theatre is and has been created and performed around the world is essential to the development of a theatre artist in the twenty-first century.

Every work of theatre, every production and performance reinvents the art form and reaffirms its value. What can theatre do that can only be done by theatre? How does our understanding of this ephemeral art contribute to our understanding of the world?

Theatre is the art form which brings together all the arts. The Barnard Theatre Department seeks to introduce students to the many aspects of theatre, separately and in combination, with equal respect for the theoretical and the practical. Theatrical production at Barnard is closely related to coursework: performance is the defining event of the art form. Courses in theatre history, design, playwriting, dramatic literature, acting, directing, and critical theory all lead to understanding how live theatre is created, and how it is experienced by both its maker and its spectators.

Theatre is the most social of the arts, and its successful realization requires collaboration among theatre workers, and between spectator and performer. Students are required to collaborate in class and in production, and to become conversant with several aspects of the work. There is also the expectation that students will participate fully as audience members in department productions.

We believe that theatre skills are life skills. Self-expression, improvisation, transformation, empathy, courage and cooperation are learned as one studies theatre. History, literature, and psychology are among the many humanistic disciplines that theatre calls on as it brings new work to life. The means to make theatre can best be found, and the integration that the art form requires can best be taught, in a liberal arts setting.

REQUIREMENTS FOR THE MAJOR

The major will be redesigned in 1994-95, effective in the fall of 1995, to reflect new course offerings. At that time, continuing students can choose to remain with the major requirements as they have been outlined previously, or change over to the new major. Students intending to major in Theatre should consult with the chair in their sophomore year or earlier to plan a program. Twelve courses and a senior project or thesis are required, as follows:

I. Three courses in theatre history.

ETR BC 3131	<i>History of the Theatre: Greeks to the Italian Renaissance</i>
ETR BC 3132	<i>History of the Theatre: Shakespeare to the 19th Century</i>
ETR BC 3133	<i>History of the Theatre: Modern Period</i>

II. Three courses in dramatic literature as set forth below:

ENG BC 3163 or BC 3164 *Shakespeare*

and

One seminar on Dramatic Literature selected from:

ETR 3134 *Seminar on Contemporary British Political Theatre*

ETR 3135 *Seminar on 19th-Century Social Drama*

ETR 3136 *Seminar on Shakespeare in Performance*

ETR 3137 *Seminar on Restoration and 18th-Century Drama*

ETR 3138 *Seminar on American Political Drama*

THR 3140 *Seminar on Women in Theatre*

or other seminars on Dramatic Literature

and

One course selected from the following:

CLL V 3123 *Classical Literature: Greek Drama and Its Influences*

GRE V 3305 *Tragedy*

ENG BC 3169 *English Drama: 900-1645*

ENG BC 3186 *Modern Drama*

ENG BC 3163 or BC 3164 *Shakespeare*

ETR BC 3134 *Seminar on Contemporary British Political Theatre*

ETR BC 3135 *Seminar on 19th-Century Social Drama*

ETR BC 3136 *Seminar on Shakespeare in Performance*

ETR BC 3137 *Seminar on Restoration and 18th-Century Drama*

THR BC 3140 *Seminar on Women in Theatre*

ETR BC 3138 *Seminar on American Political Drama*

FRE BC 3039 *Twentieth Century French Theatre*

GER BC 3018 *Schiller and Kleist*

GER BC 3061 *Seminar: Faust*

ITA V 3641 *Italian Theatre in the Renaissance*

SPA BC 3110 *An Introduction to Spanish Theatre*

(Other courses in dramatic literature may be substituted with permission of the chair.)

III. Six additional courses in theatre practice to be chosen in consultation with the departmental adviser. In addition to departmental offerings, the following courses may be used to meet this requirement:

ARS BC 3031x *Imagery and Form in the Arts*

ENG BC 3113 *Dramatic Writing*

ENG BC 3121 *The Uses of Speech*

ENG BC 3124 *Oral Interpretation of Dramatic Literature*

DAN BC 2563 *Dance Composition: Form*

DAN BC 2564 *Dance Composition: Content*

(Other courses pertinent to study of theatre-related subjects may be substituted with the permission of the chair.)

IV. The senior theatre major must complete a semester-long thesis course, either in the area of Performance, or within the areas of History, Dramaturgy, Criticism.

THR BC 3997 *Senior Project: Performance*

THR BC 3998 *Thesis Course in History, Dramaturgy, Criticism*

COURSES OF INSTRUCTION

Please note that there is an 18-point limit on studio courses for non-majors. A major may take 24 studio points in Theatre and an additional six in another discipline for a total of 30 studio points. Theatre Department studio courses are THR BC 2003 Voice and Speech,

THR BC 2120: *Backstage Techniques*; THR BC 3001-3006 (all Acting Labs); THR BC 3122 Rehearsal and Performance; THR BC 3201 and 3202 (both Directing Labs).

Acting Lab offerings will change each year.

THR BC 2000x **What Is Theatre?**

An examination of the art form of theatre in its many aspects. The origins of theatre and the impulse to perform. Theory and practice of acting and play-making in world theatre. —A. Banilla and D. Partridge

Limited to 25 students. This course is an interim offering and will be replaced by Introduction to World Theatre beginning in 1995. Students can take both courses for credit. Appropriate for entering students and upper-class students with no prior theatre experience.
3 points. W 11:00-12:50 H

THR BC 2001x **Introduction to World Theatre**

A practical exploration in the history and practice of world theatre through lecture-demonstrations, guest performances, and hands-on workshops in acting and design. Readings, scenework and a final paper or project will be required. —Staff
3 points. Offered Autumn 1995. H

THR BC 2002x **The Theatre of New York City**

An introduction to the variety of New York's theatrical worlds. Attend performances in conjunction with readings in the sociology, spatial practices and theatre history of the city. Trips will include the backstage of the Metropolitan Opera and a wide range of theatres including commercial, non-commercial, avant-garde, and popular. Students will write descriptive responses and keep a journal. —M. Sussman

Enrollment limited to 20 students. Lab fee.
3 points. W 4:10-6:00 plus one evening a week for performance viewing.

THR BC 2003x, y (formerly BC 3100) **Voice and Speech**

Techniques of vocal production tailored to the individual problems and potential of the student. Exercises will be developed for use in warm up, relaxation, breathing, and rehearsal; daily work with texts and characterization, with an emphasis on Shakespeare and other classics.

—S. Friedman
3 points. M W F 11:00-12:15

THR BC 2120x (formerly 3120 Stagecraft) **Backstage Techniques**

A general introduction to all aspects of working backstage. The class will break into crews for the creation of lighting, scenery, props, sound, costumes, and rigging, as well as for the stage management and running of the department season. Includes a comparative history of stagecraft.

—M. Sussman
3 points. Tu Th 10:35-11:50. Lab hours TBA.

THR BC 3004x, 3005y **Acting Lab**

This is an umbrella course whose offerings will change each year. Some are narrow, some broad; all are designed with five objectives in common:

- a. To focus on a particular genre, playwright, or approach to live performance.
- b. To combine theory and practice. Each class will have an on-going balance of academic and on-one's-feet work throughout the term. Homework assignments will include scene preparation, reading, research, and both individual and group projects.
- c. To become aware of some of the many approaches to acting in world theatre, and to develop respect for this diversity.
- d. To explore the social and political context of the work at hand.
- e. To realize the integration required in all acting: ultimately, this is an acting course, and the end goal is what happens on stage.

There will be one department audition each semester for all acting lab sections, to be held on the first day of classes. This is not a talent search; all serious students are welcome in the acting program. For the sections that include musical theatre (Acting the Song, Chinese Opera), the willingness to sing is important; vocal training or a "good voice" is not a prerequisite.

The acting lab courses are intentionally non-sequential. Students come to the study of acting with widely varying talents and backgrounds. The mix of levels enriches the collaborative experience and offers greater flexibility for students.

No more than five courses can be taken from the Acting Lab offerings during a student's Barnard career. An additional course can be chosen from the Advanced Acting Lab for a maximum total of six acting courses.

Enrollment in each section is limited to 16 students.

Prerequisite: THR BC 3001 and/or audition
3 points.

1. Acting American Naturalism

An eclectic approach to naturalistic acting techniques; an examination of performance practice through scene study. Emphasis will be placed on works by Inge, Williams, Miller, and others; and on American naturalism as a foundation for the exploration of other acting styles. —A. Gale
M W 10:00-11:50 plus two hours TBA.

2. Acting Brecht

Intensive monologue and scene work, along with theoretical analysis and discussion. Practical applications of the “alienation effect” and other Brechtian concepts; readings of critical and dramatic work; performance assignments will be selected from the wide range of Brecht’s plays, poems and songs. —S. Friedman
M W 2:10-4:00 plus two hours TBA.

3. Acting in Motion

The actor in space. Physical intent—emotional content. Gesture. Posture. Connections. An exploration of physical aspects of character, motivation and performance. Each class will include a warm-up followed by improvisation and specific movement study. Sources include Laban Movement Analysis and Bartenieff Fundamentals. —S. Lampert-Hoover
M W 12:00-1:50 plus two hours TBA.

THR BC 3005y Acting Lab

Enrollment in each section is limited to 16 students.
Prerequisite: THR BC 3001 and/or audition
3 points.

1. Acting Character Through Movement

An exploration of physicality as the basis for acting. Group and individual observation and improvisation; experimentation with puppetry, masks, and sitting. Principal source material includes Augusto Boal, Peter Schumann and the Bread and Puppet Theater.
—P. Hernandez
Tu Th 10:00-11:50 plus two hours TBA.

2. Acting Chekhov

Scene study, improvisation, character and monologue work from the plays and short stories of Anton Chekhov. An examination of the artistic and social context of Chekhov’s work including Stanislavski, the Moscow Art Theatre, and the politics of naturalism. —D. Partridge
M W 12:00-1:50 plus two hours TBA.

3. Acting Chinese Opera

Training in the four performance skills of Chinese Opera: song, speech, stylized movement/acting, and stage combat. Looks at Chinese Opera in its historical context in order to understand the nature of the performance tradition. —S. Jain, H. Wen-yi
F 10:00-11:50 plus 2 Hours TBA.

4. Acting the Song

Singing as an extension of speech—the heightened necessity of song. A song performance workshop with special attention paid to lyrical analysis: Porter, Gershwin, Berlin, Harburg, Mercer, Hammerstein, and others. Song as it emerges from scene; and as an individual entity.
—A. Gale
M W 10:00-11:50 plus 2 Hours TBA.

THR BC 3006y Advanced Acting Lab

1. Acting Shakespeare

Explores the implications of Shakespeare’s advice to the players, “suit the word to the action, the action to the word.” The approach is physical while mining the text for clues to action found in the rhetorical patterns and structures of both the verse and the prose. Public performance presented at end of the term. —E. Swain
Prerequisite: permission of the instructor.
3 points. Tu Th 10:00-11:50 plus Hours TBA.

THR BC 3122x, y Rehearsal and Performance

Students take part in the full production of a play as actors, designers, or stage managers. Stresses the collaborative nature of production. Appropriate research and reading will be required in addition to artistic assignments. —D. Partridge, S. Friedman, Staff and guest directors.

A studio course, subject to the cap on studio credit. Can be taken more than once for credit up to a maximum of 3 credits a semester. Will be graded. Students not wishing to take this course for credit may participate fully in departmental productions with the permission of the instructor. Permission of the instructor required.

1-3 points. Hours TBA.

The current history of theatre cycle will complete in 1994-95, and will be replaced by a one year course, required for majors, beginning in 1995-96.

ETR BC 3132x

History of Theatre: Shakespeare to the 19th Century

Study of theatre literature and theatre practice from the Elizabethan period to the 19th century.

Focus includes Shakespeare, the English Restoration, Spanish, French, and German drama of the period. —E. Swain

Enrollment limited to 40 students. Alternate years.

3 points. Tu Th 2:40-3:55

III H

ETR BC 3133y

History of Theatre: Modern Period

Major developments of the modern period in drama, scenic approaches, stage directing, and acting. Topics include the work of Stanislavsky, Meyerhold, Artaud, Brecht, Grotowski, and Brook, the innovations of Craig, Appia and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw, and other playwrights up to modern times. —E. Swain

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55

III H

THR BC 3133x

Theatre and Opera Design

The art, practice, and history of designing costumes and sets for theatre and opera. Students develop their own theatrical visions through design projects. Particular emphasis put on women designers who have revolutionized the modern theatre through an integrated approach to design.

—V. James

Can be taken in addition to Set Design and Costume Design. Lab fee to cover materials.

3 points. M 4:00-6:30

THR BC 3134y

Lighting and Performance (formerly Lighting Design)

A practical workshop with readings in the social history and aesthetics of stage lighting, beginning with pre-electrical forms. Covers the basics of electricity, the use of theatrical lighting instruments and theories of design and color. A series of lighting projects will be required.

—M. Sussman

3 points. Tu 4:00-6:30

ETR BC 3134x

Seminar on Contemporary British Political Theatre

4 points. Not offered in 1994-95.

III H

ETR BC 3135y

Seminar on 19th-Century Social Drama

Late 19th-century social drama in the context of earlier melodrama. The shifting relationship

between the visual and the verbal in the theatre and its implications for social and theatrical change. Playwrights include Jerrold, Scribe, Taylor, Robertson, Ibsen, Pinero, Wilde, Shaw, and Robins. —P. Denison

4 points. Tu 4:10-6:00

III H

ETR BC 3136y

Seminar on Shakespeare in Performance

The dramatic text as theatrical event. Differing performance spaces, production practices, and cultural conventions promote differing modes of engagement with dramatic texts. We will explore Shakespeare's plays in the context of actual and possible performances from the Renaissance to the 20th century. —P. Denison

Enrollment limited to 20 students.

4 points. Th 4:10-6:00.

H

ETR BC 3140x

Seminar on Women in Theatre

An exploration of different images of women as presented in dramatic literature of various countries and historical periods, and women's evolving roles as practitioners of theatre as playwrights, directors, actresses, etc. —E. Swain

Enrollment limited to 15 students.

4 points. W 4:10-6:00.

H

THR BC 3201y

Directing Laboratory (formerly Directing I)

Approaches to staging a play, with an emphasis on physical, visual and rhythmic techniques. In-depth experimentation in how theatre is seen and experienced as a cultural and social phenomenon; and a look at the role of the director as it has emerged in the modern European theatre and in world theatre genres. —D. Partridge

Enrollment limited to 15 students.

Prerequisite: THR BC 3001, THR BC 2120, or permission of the instructor.

3 points. Tu Th 12:00-1:50

THR BC 3202y

Advanced Directing (formerly Directing II)

The direction of scenes and short plays for public performance. The director as designer and dramaturge. Directorial analysis, preparation, working with actors, and production planning. The class group functions as a producing collective, with full engagement in all aspects of the process. —D. Partridge

Enrollment limited to 15 students.

Prerequisite: THR BC 3001, BC 2120, or permission of the instructor.

3 points. Tu Th 12:00-1:50

THR BC 3300y
Play Development

Student playwrights will attempt to transcend self-imposed limits by dramatizing works of fiction, by working from newspaper stories and oral history, and by creating scenes based on improvisations. Projects will culminate in performance, playwrights will be active participants in casting, design and staging. —S. Friedman

Instructor's permission and writing sample required.
3 points. Tu Th 2:10-4:00 plus two hours TBA.

THR BC 3500x, y
Special Studies in Theatre

Special problems in theatre for actors, directors, designers, and critics. —Staff
4 points. Hours TBA.

THR BC 3997x, y
Senior Project: Performance

The student will direct, design or perform a major role in a play. This work will be produced according to departmental guidelines. Students will be expected to collaborate in some aspect of the work

and take part in group discussions with faculty and other senior project students. A paper will be required. —Staff

Prerequisite: THR BC 2120. Enrollment limited to senior Theatre majors.

3 points. Hours TBA.

THR BC 3998x, y
Thesis Course in History, Dramaturgy, Criticism

The student will write a substantial paper focusing on a selected topic in Theatre History or Dramatic Criticism, providing political, philosophical and social context. —Staff

Enrollment limited to senior Theatre majors.

Prerequisite: THR BC 2120.

3 points. Hours TBA.

THR BC 3999
Independent Study

—Staff

3 points. Hours TBA.

This program is supervised by the Committee on Urban Affairs:

Professor of Political Science: Demetrios Caraley (Janet H. Robb Professor and Chair)¹

Associate Professor of Urban Affairs and Political Science: Ester Fuchs (Director)²

Professor of Anthropology: Paula G. Rubel

Professor of Economics: Deborah D. Milenkovitch

Assistant Professor of History: David Farber

Assistant Professor of Urban Affairs and Political Science: Judith Russell², J. Phillip Thompson

¹Absent on leave Spring term

²Absent on leave 1994-95

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Affairs can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

- A. One course each in three of the following departments dealing primarily with urban subject matter: Anthropology, Economics, History, Political Science, Sociology.

N.B.: If you are concentrating in one of these five departments, you can count one "A" requirement course to **also** fulfill your concentration requirement, e.g.:

Anthropology V 3100	<i>Anthropology of Urban Life</i>
Economics W 3228	<i>The Urban Economy</i>
History W 4673/W4674	<i>American Urban History</i>
Political Science V 3313	<i>American Urban Politics</i>
Sociology V 3324	<i>Urban Sociology</i>

- B. One course dealing primarily with urban subject matter from one department other than those list above (such as Art History, Education, English, Environmental Science, Geography, Psychology, or Urban Planning) **or** one quantitative/methodology course (such as Statistics, Computer Science, Urban Affairs BC 3200 *Program Evaluation*, or a quantitative/methodological course in your concentration).

N.B.: If you are concentrating in one of the departments listed above, you can count one "B" requirement course to **also** fulfill your concentration requirement.

- C. **Five or more courses in a specialization** in one of the participating departments as specified in the Urban Affairs/Urban Studies handout.

- D. In the junior year, **two colloquia** in Urban Affairs:

UST V3545	<i>Shaping of the Modern City</i>
UST V3546	<i>Contemporary Urban Problems.</i>

- E. In the senior year, **two-semesters of research seminar** in the department of concentration. For **Columbia College students** either:

- Political Science-Sociology V 3994x-V 3995y *New York Area Undergraduate Research Program* **or**
- Workshop in Urban Studies C 3610x *Boom and Bust in Downtown Development*,

Gentrification, and Neighborhood Abandonment AND the seminar in Urban Studies C 3880y *American Suburbanization*.

The list of specific courses and of the departments that offer specializations for urban affairs majors is available in the Political Science Department office. Appropriate courses can be substituted with the approval of Professor Caraley or Professor Fuchs.

There is no minor in Urban Affairs.

COURSES OF INSTRUCTION

Colloquia

***UAF BC 3535y**

Colloquium on Urban Administration and Management

Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Admission by application only.

Enrollment limited to 20 students.

4 points. Not offered in 1994-95. III S

UAF BC 3537y

Workshop in Urban Administration and Management

Corequisite: Urban Affairs BC 3535x.

2 points. Not offered in 1994-95.

***Urban Studies UST V 3545x-V 3546y**

Junior Colloquia on Urban Affairs

Autumn Term: Shaping of the modern city. An introduction to the historical process and social consequences of urban growth. Reading and discussion focus on origin and current status of urban problems. —D. Farber

Admission by application only.

4 points. Tu 11:00-12:50. S

Spring Term: Contemporary Urban Problems. Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health. —J. P. Thompson

Admission by application only. Enrollment limited to 15-20 students.

4 points. W 9:10-10:50. S

UAF BC 3200x

Program Evaluation: Methods and Case Studies

An introduction to the approaches and methodology of program evaluation. Issues addressed: planning, program monitoring, process and outcome assessment, and benefit/cost critiques. Case studies will provide real-world examples of program evaluation techniques. Includes instruction on statistical techniques and computer software. Guest speakers will discuss urban programs in New York City in which they are involved.

—L. Barrington and R. McChesney

3 points. Hours TBA.

***POS G 8232x**

Colloquium on Urban Politics, Policymaking, and Administration

Politics, policymaking, and administration in large cities. Particular attention is given to urban social and economic problems and the federal government's role in urban affairs; the resources, strategies, and tactics of selected officials and private influentials; and alternative futures of large cities. —D. Caraley

Prerequisite: BC 3001 or V 3313 and permission of the instructor.

4 points. Th 2:10-4:00

Research Seminar

Political Science-Sociology PSS V 3994x-V3995y

New York Area Undergraduate Research Program

An ongoing program that develops an urban research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —R. Bailey

Prerequisite: Junior or senior standing. Enrollment limited to 10-15 students, selected by application only. Participation is for two terms.

4 points. M 4:10-6:00

Professor: Natalie B. Kampen (Chair and Art History)

Associate Professor: Afsaneh Najmabadi¹

Assistant Professors: Laura Kay (Physics), Ann Pellegrini (Visiting), Timea Szell (English), Deborah Valenze (History), Judith Weisenfeld (Religion), Angela Zito (Religion)

Lecturers: Linda Earle, Chikwenye Ogunyemi, Elizabeth Wiesen

Instructors: James Crapotta (Spanish), Lisa McGirr, Quandra Prettyman (English), Julia Rodriquez, Alexandra Suh

Advisory Board: Leslie Calman (Center for Research on Women), Lynn Chancer (Sociology), Helene Foley (Classics), Mirra Komarovsky (Sociology), Paula Loscocco (English), Theresa Rogers (Sociology), Rosalind Rosenberg (History), Susan Sacks (Education), Flora Schiminovich (Spanish), Elizabeth Swain (Theatre), Student Members.

¹Absent on leave 1994-95.

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by recent scholarship on gender and its relation to other systems of cultural/political difference: race, class, ethnicity, and sexual orientation. Some of the issues touched on in these fields are: questions about the distribution of power, work and resources in the U.S. and elsewhere; the symbolic representation of identity in literature, religion and art; the redefinition of "history" through the study of gender, ethnicity, race, and class; the historical place(s) of lesbian lives; the notion of cultural "roles" for women and men; and the shape of political movement which take gender as an organizational basis.

Early in their sophomore year, students interested in the major should consult the chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major and have access to Columbia graduate courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Center for Research on Women maintains an extensive and expanding resource collection on women's issues. The Center also sponsors a variety of lectures and discussions devoted to the exploration of the relationship of feminist studies to traditional scholarship.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills and focus their studies in one of two areas of concentration: humanities or social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments.

The requirements for the major are 14 courses to be distributed as follows:

WMS BC 3111	<i>Feminist Texts I: Wollstonecraft to Beauvoir</i>
WMS BC 3113	<i>Feminist Texts II: Beauvoir to the Present</i>
WMS V 3112	<i>Colloquium in Feminist Theory</i>
WMS V 3521-3522	<i>Senior Research Seminar</i>

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social science/history) and one in the other area (V 1001 may count in either area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to

engage in original interdisciplinary research and to bring to bear the theoretical emphasis of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599, *Independent Research*.

The Combined Major Option

The combined major option includes seven courses in Women's Studies to be distributed as follows:

- WMS BC 3111 *Feminist Texts I*
- WMS BC 3113 *Feminist Texts II*
- WMS V 3112 *Colloquium in Feminist Theory*

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities or social sciences/history) and one in the other area (V 1001 may count in either area).

The requisite number of courses in the combining field, to be determined by the chair of that department or program; and

Two terms of a senior seminar to be taken in one of the fields combined in the major. The senior essay shall be designed to integrate the two areas of inquiry.

The combined major should be planned early in the sophomore year.

No minor is offered in Women's Studies.

COURSES OF INSTRUCTION

WMS V 1001x

Women and Men: Power, Politics, Poetry

An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory. —A. Grossman, A. Zito

3 points. Tu 2:10-4:00. Discussion Th 2:10-4:00 I H

Anthropology-Women's Studies ANW V 3039y

Women in Third World Development

3 points. Not offered in 1994-95.

S

WMS BC 3111x,y

Feminist Texts I: Wollstonecraft to Beauvoir

The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J.S. Mill, A. Kollontai, Zora Neale Hurston, Emma Goldman, C.P. Gilman, Simone de Beauvoir, and others in an attempt to discover the roots of the contemporary feminist movement. *Permission of the instructor required. Enrollment limited to 20 students.*

4 points. x: M 2:10-4:00 —L. McGirr

y: W 2:10-4:00 —E. Wiesen

S

WMS BC 3113x,y

Feminist Texts II: Beauvoir to the Present

Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language, and cultural representations.

Permission of the instructor required. Enrollment limited to 20 students.

4 points. x: W 2:10-4:00 —A. Pellegrini

y: M 2:10-4:00 —A. Pellegrini

H

WMS V 3112x

Colloquium in Feminist Theory

An exploration of the relationship between new feminist theory and feminist practice both within the academy and in the realm of political organizing. —A. Pellegrini

Prerequisite: Major Texts I or II and permission of the instructor.

4 points. Tu 10:00-12:00, Th 10:00-11:00

WMS BC 3115x

Workshop in Women's Organizations

An optional course corequisite with V 3112x. An opportunity to investigate feminist theory in practice through involvement in NYC organizations.

—A. Pellegrini

Permission of the instructor required and coregistration with WMS V 3112. Not open to Columbia students.
2 points.

WMS BC 3117y
Women and Film

A critical interpretation of film from a feminist perspective and exploration of the relationship of gender to the language of film. —L. Earle
3 points. M W 4:10-6:30 I H

WMS BC 3120x
The Invisible Woman in Literature: The Lesbian Literary Tradition

An interdisciplinary exploration of the lesbian experience. —E. Wiesen
4 points. Tu 4:10-6:00 H

WMS V 3121x
Black Women in America

4 points. Not offered in 1994-95.

Art History-Women's Studies AWS BC 3123x
Women and Art

A discussion of the methods necessary to analyze visual images of women in their historical, racial and class contexts, and to understand the status of women as producers, patrons and audiences of art and architecture. —N. Kampen
3 points. Tu Th 2:40-3:55 I

Spanish-Women's Studies SPW 3204x
Latina Literature

3 points. Tu Th 2:40-3:55

Spanish-Women's Studies SPW BC 3205y
Hispanic Gay and Lesbian Representations in the Literature of the Americas

Lesbian and gay images and issues in literary and theoretical writings of Latin American authors and of Latino authors of the United States. Hispanic and North American constructions of homosexual-heterosexual and male-female, forms of erotic desire, the relationship of politics, sexuality, and race. Authors include Puig, Arenas, Allende, Peri Rossi, Anzaldúa, and Moraga. Readings and discussions in English. —J. Crapotta
3 points. Tu Th 4:10-5:25

WMS V 3502x
Women and Science

History and politics of women's involvement with science. Women's contributions to scientific discovery in various fields, accounts by women scientists, engineers, and physicians, issues of science education. Feminist critiques of biological research and of the institution of science. —L. Kay
4 points. Tu 4:10-6:00 S

WMS BC 3504y
Gendered Controversies: Women's Bodies and Global Conflicts

A seminar investigating the significance of social, political and cultural conflict centered around issues concerning women's lives. —J. Rodriguez
4 points. Tu 2:10-4:00

WMS BC 3505y
Women, Islam and Nationalism

A historical survey of how concepts of woman/gender have defined religious and national communities in the Islamic Middle East. —A. Najmabadi
4 points. Not offered in 1994-95. II S

WMS BC 3507x
Unheard Voices: African Women's Literature

Themes include the politics of the canon in Africa, the problems of language, post-colonial counter-discourse, the African-American continuum, and Third World and western feminism. We will read African women's writing, including the novel, the short story, poetry, and drama. Authors include Flora Nwapa, Buchi Emecheta, Nawal El Saadawi, Miriam Tlali, Bessie Head, Alifa Rifaat, Molara Ogundipe-Leslie, Ama Ata Aidoo, Efua Sutherland, Aidoo, and Tess Onwueme. —C. Ogunyemi
4 points. W 4:10-6:00

WMS BC 3508x
Asian-American Women's Literature

This course explores selected texts written by Asian American women from diverse backgrounds, focusing on issues such as identity, gender, generation, race, class, region, and language. —A. Suh
4 points. M 4:10-6:00

WMS V 3521x, 3522y
Senior Seminar

Individual research in Women's Studies conducted in consultation with the instructor. The result of each research project submitted in the form of the senior essay, and presented to the seminar. —x: N. Kampen; y: T. Szell
Prerequisites: BC 3111, BC 3112, or BC 3113, or permission of the instructor. Enrollment limited to senior majors.
4 points. Th 12:00-2:00

WMS BC 3599x,y
Independent Research

3 or 4 points. Hours TBA. Instructor TBA.

English-Women's Studies EWS BC 3144y
Minority Women Writers in the United States

Literature of 20th-century minority women writers in the United States, with particular emphasis

on works by Asian, Black, Hispanic, and Native American women. The historical and cultural as well as the literary framework. —Q. Prettyman
3 points. Tu Th 2:40-3:55 H

**WOMEN'S STUDIES COURSES
IN OTHER DEPARTMENTS AND
PROGRAMS**

Students should consult the departmental and program listings for course descriptions.

Anthropology-Asian Civilizations AAS V 3501y
Women in Japanese Society
—K. Ikeda

Asian Studies V 3910y
The Japanese Family
—K. Ikeda

Comparative Literature CL W 4390y
Staging Femininity in Opera and Film
—D. Levine

Comparative Literature CL W 4612y
Gender and Psychoanalysis
—M. Mueller

East Asian EAS V 3635x
*The Female Voice in Japanese Literature,
Religion and Culture*
—B. Ruch

East Asian EAS V 4836x
*Female Religious Experience in Pre-modern
Japanese Literature and Culture*
—B. Ruch

East Asian EAS V 3650x
The Family in Chinese History
—R. Hymes

Economics ECO BC 2024y
Women in Economic Development
—U. Kalpagam

English ENG BC 3140x
Explorations of Black Literature: 1460-1890
—Q. Prettyman

English ENG BC 3140x
Caribbean Women Writers
—J. Kassanoff

English ENG BC 3140x
Jane Austen
—A. Sulloway

English ENG BC 3140y
Nineteenth-Century American Women Writers
—L. Gordis

English ENG BC 3910y
*Women's Studies: Women, Religion and
Human Rights*
—J. Ferrante

English BC 3997x, 3998y
Senior Seminars in Literature
1. *The Middle Ages: Images of Women*
—T. Szell
2. *Women in the English Renaissance*
—P. Loscocco

German GER W 4515x
Women in German Literature
—M. Mueller

History HIS W3218x
*Germany and the Crisis of Modernity: Nation,
Race and Gender in the Twentieth Century*
—A. Grossman

History HIS BC 3429x
*Consuming Passions: Gender, Class and
the Culture of Consumption in France and
England, 1832 to Present*
—L. Tiersten

History HIS BC 3984x
Family and Kinship in Latin America
—D. Levenson

History HIS BC 3082x
American Women in the 20th Century
—R. Rosenberg

Philosophy PHI BC 3147y
Philosophical Issues of Feminist Theory
—S. Larson

Political Science POS BC 3440y
Women and Third World Politics
—L. Calman

Psychology PSY BC 3152y
Psychological Aspects of Human Sexuality
—W. McKenna

Psychology PSY BC 2371x
Psychology and Women
—L. Braine

Religion V 3804y
Body, Gender and Belief in China
—A. Zito

Religion V 3804y
Women's Religion in American History
—R. Balmer

Religion V 3804y
Cultural Construction of the Body:
Embodiment in its Chinese and Mediterranean
Contexts

—K. Cooper and A. Zito

Spanish SPA BC 3004x
Latin American Women Today:
Facts and Fallacies

—F. Schiminovich

Spanish SPA BC 3142y
Film-Literature Relation in Modern Latin
American Narrative

—F. Schiminovich

Spanish SPA BC 3203y
20th-Century Women Poets of the Americas:
Kindred Voices

—A. Rayo

Spanish W 3500y
Contemporary Spanish Women Writers

—G. Sobejano

Spanish and Portuguese SPA W 3468y
Special Topics in Spanish America: Women
Writers of Latin America

—J. Franco

Theatre THR BC 3140x
Women in Theatre

—E. Swain

FIRST-YEAR SEMINAR

First-year students interested in Women's Studies may wish to select their First-year Seminar from the Women in Literature and Culture cluster. See page 150.

RECOMMENDED COURSES OF RELATED INTEREST

These courses do not count for major credit, but do focus in part on women's issues and issues of gender.

Anthropology-Asian Studies V 3500x
Contemporary Japanese Society

—K. Ikeda

Anthropology-Asian Studies V 3290y
Asian-American Experience

—K. Ikeda

Comparative Literature CL W 4320x
Semiotics of Bourgeois Fashion

—D. Purdey

Education EDU BC 2032x
Contemporary Issues in Education

—S. Sacks

English ENG BC 3998y
The Body and Language

—M. Jaanus

German GER W 3500y
Introduction to Scandanavian Culture

—V. Moberg

German GER W 4212y
The Kalevala: The Finnish Folklore Ethic

—A. Flint

Political Science POS BC 3007x
Modern Political Movements

—L. Calman

Political Science POS BC 3013x, 3014y
Political Theory

—D. Dalton

Religion V 3804y
African-Based Religions of the Caribbean

—K. Brown

COURSES OFFERED AT REID HALL IN PARIS

The following courses are offered at Reid Hall in Paris. For additional information about the programs available, consult the Reid Hall Programs Bulletin available in 412 Lewisohn Hall.

Women's Studies H 3450y
Contemporary French Thought
and Feminist Theory (Seminar)

Examines how feminist thought deals with contemporary conceptions of identity. Through a consideration of literature by women authors, the course identifies redefinitions of gender difference. —M. Marini
 4 points.

Women's Studies H 3550y
Women and Society in France:
History of Women from 16th to 20th Centuries

The public and private space of women in France: as a function of the cultural and social gender arrangements, with special attention to the end of the 18th century and the revolutionary period.

—N. Pellegrini

3 points.

TRUSTEES OF BARNARD COLLEGE

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Paul Nolan, B.A., Operations Coordinator

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Barbara H. Robbins, Assistant Controller

Ethel Yang, Payroll Supervisor

Jacqueline A. Greene, Senior Accountant

Alexander Polanco, Accountant

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Olympia Jebejian, M.S., Assistant Dean
Christina Kuan Tsu, J.D., Assistant Dean
Esther Rowland, M. Phil, M.A., Associate Dean
James Runsdorf, Ph.D., Assistant Dean
Aaron Schneider, Ph.D., Associate Dean of Studies and Senior Class Dean
Marjorie Croes Silverman, Ph.D., Associate Dean, Junior Class Dean, Director of Transfer Services
Vivian Taylor, M.Ed., Sophomore Class Dean and Associate Dean for Student Affairs
Catherine S. Webster, M.A., First-Year Class Dean

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Jo Ellen Gordon, M.A., Learning Disabilities Specialist
Rose L. Gladden, Secretary

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Karen Schwartz, B.A., Student Loan Officer
Beverly M. Christian, B.S., Information Officer

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T.B.A., Associate Director for Mental Health Services
Giselle Harrington, M.Ed., Associate Director for Health Promotion
Theresa O'Rourke, R.N., Head Nurse
Deborah Witzeman, Administrator

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Rhonda E. Harrison, B.A., Assistant to the Director
Deborah Middleton, B.A., Program Counselor
Daa' iya Sanusi, A.A., Internship Coordinator
Liberty Partnerships Program
Alexandra Nestoras, B.A., Director
Malik Purley, B.A., Counselor
Denise Felton, Administrative Assistant

Office of Higher Education Opportunity Program

Francesca M. Cuevas-Cruz, B.A., HEOP Director
Kellie Newman, B.A., HEOP Assistant Director
Santa Arocho, B.A., Counselor, HEOP

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Cynthia Johnson, M.A., M.S., Reference Librarian
Tatiana Keis, M.S., C.A.L., Access Services Librarian
Jane Lowenthal, M.Ed., M.L.S., Archivist
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Joseph M. Hemway, Database Administrator
William P. Bertsch, Systems/Database User Support Analyst
Michael Roberson, Operations Manager
Jayasree Krishnamurthy, Coordinator of Academic Computer Labs
Cheng-Dar Yang, User Consultant
Meredith Altman, Help Desk Coordinator

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Alan Anderson, B.A., Associate Director of Reprographics

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Paula Newman, Director

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Marybeth Maher, Assistant Registrar
Patsy To, Assistant Registrar

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Sandra J. Johnson, Associate Dean of Student Life
Gloria Anderson, Assistant to the Dean
Marissa Guijarro, Housing Manager
T.B.A., Associate Director, Plimpton Hall
Joy E. Colmena, Associate Director, Elliott Hall
Jill H. Cochran, Associate Director, the 600's
Debra H. Stern, Associate Director, Brooks, Hewitt, Tower

Daphne A. Williams, Associate Director, First-Year Focus
Lillian Caddle, Area Manager, the 600's
Paulette Suber, Area Manager, Sulzberger Hall

Office of Safety and Security

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Betty Weems, B.S., Associate Director
Karla Buchting, Supervisor
Brendan Delaney, Supervisor
James Kelly, Supervisor
George Koserowski, Supervisor
Michael Ruotolo, Supervisor

Office of Summer Programs

Jean McCurry, M.A., Director
Beth Goldstein, M.S., Associate Director

THE ASSOCIATE ALUMNAE OF BARNARD COLLEGE

The Associate Alumnae of Barnard College comprises over 27,000 members from all 50 states and more than 63 countries. Members include all who have completed a year or more of study at Barnard and have left in good standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive the Barnard alumnae magazine, *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

The Associate Alumnae serves the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in support of the College.

Barnard Alumnae Council, a nationwide group of alumnae leaders, meets biennially on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 80 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

The Associate Alumnae is governed by a 20-member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

Officers of the Associate Alumnae

Carol Murray Lane, President

Christine Giordano, Vice President

Elaine Schlozman Chapnick, Vice President

Directors

Enola Aird

Elizabeth Atkins

Gail Alexander Binderman

Jolyne Caruso-FitzGerald

Pamela Durborow Gallagher

Jodie-Beth Galos

Evelyn D. Giaccio

Annette Stramesi Kahn

Ruth Horowitz Kargman

Judith Lefkowitz Marcus

Kathie Plourde

Pola Auerbach Rosen

Adrienne Aaron Rulnick

Darlene Yee

Alumnae Trustees

Carol Herman Cohen

Carol Murray Lane

Patricia Harrigan Nadosy

Diana Touliatou Vagelos

SCHOLARSHIP FUNDS

UNRESTRICTED

Mary Allen Fund (1981) <i>In memory of Ruth Marley.</i>	Class of 1918 Fund (1975)
Neils J. Allison Fund (1964) <i>From the estate of Beatrice C. Allison.</i>	Class of 1921 Fund (1931)
Arthur G. Altschul Fund (1984)	Class of 1925 Fund (1975)
Helen Goodhart Altschul Fund (1990) <i>In memory of Helen Goodhart Altschul '07.</i>	Class of 1926 Fund (1981)
Alumnae Fund (1922)	Class of 1930 Fund (1975)
Anna E. Barnard Fund (1899)	Class of 1931 Memorial Fund (1981)
Joan H. Baum Fund (1977)	Class of 1933 Fund (1973)
Frances E. Belcher Fund (1963)	Class of 1935 Fund (1975)
Morris and Ester Biederman '31 Fund (1994)	Class of 1936 Fund (1971)
Ruth Marshall Billikopf Fund (1950)	Class of 1938 Fund (1989)
Varian White Blumberg Fund (1952)	Class of 1939 Fund (1990)
Rose and Solomon Blumenthal Fund (1987)	Class of 1940 Memorial Fund (1991)
Elizabeth M. Bogardus Fund (1976)	Class of 1943 Fund (1989)
Charles E. Bogert and Anna Shippen Young Bogert Memorial Fund (1913)	Class of 1947 Memorial Fund (1982)
Eva-Lena Miller Booth Fund (1932)	Class of 1948 Fund (1989)
Dorothy S. Boyle Fund (1978)	Class of 1953 Fund (1973)
Josephine Brand Fund (1970)	Class of 1954 Fund (1955)
Brearley School Fund (1889)	Class of 1959 Fund (1974)
Florence Mackie Brecht '39 Fund (1993)	<i>In memory of Jacqueline Zelniker Radin.</i>
Martha Ornstein Brenner Fund (1915)	Class of 1963 Fund (1983)
The Anny Birnbaum Brieger '29 and Edith Birnbaum Oblatt '29 Fund (1992)	Class of 1964 Fund (1992)
Arthur Brooks Fund (1897)	Class of 1974 Fund (1991)
Margaret Bullowa Fund (1979)	Class of 1981 Fund (1982)
Elsa B. Bunn Fund (1980)	Martine Cobanks Fund (1973)
Elizabeth Hobe Burnell Fund (1971)	Beatrice Rosenthal Coleman Scholarship Fund (1991)
Suzanne Payton Campbell '20 Fund (1992)	Rosalie Colie Fund (1993)
Chicago Campaign Fund (1992)	College Bowl Fund (1968)
Fanny Steinschneider Clark Fund (1978)	Barbara Myers Cross Fund (1986)
Jennie B. Clarkson Fund (1898)	Yvonne Moen Cumerford Fund (1972)
	Caryl M. Curtis Fund (1980)
	Vera B. David Scholarships (1962)
	<i>In memory of her late husband, John David.</i>

SCHOLARSHIP FUNDS

Ethel Dawbarn Fund (1987)	Blanche Kazon Graubard Fund (1981)
Blanche Heyman Doernberg Fund (1991)	Ethel C. Gray Fund (1973)
Ada M. Donelle Fund (1948)	Louise H. Gregory Fund (1955)
L. Adele Dorsett Fund (1971)	Hetta Stapff Halloran Fund (1977)
Helen Geer Downs Fund (1974)	Mary Catlett Hardy Fund (1994)
Drake Scholarships and Fellowships (1992)	Harkness Fund (1939)
Amelia Cary Duncan Fund (1976)	Jane Harnett Fund (1978)
Marie G. Eckhardt Fund (1990)	Helen May Smith Helmle Fund (1973)
May Parker Eggleston Fund (1977)	Margaret Holland Fund (1975)
Betty Eisenstadt Fund (1982)	Rita Hilborn Hopf Memorial Fund (1966)
<i>In memory of Sarah and Israel Gillman and of Betty Eisenstadt.</i>	Charles Evans Hughes Fund (1952)
Elizabeth Kramer Emmons Fund (1986)	Harriet Kaye Inselbuch '62 Fund (1992)
Sarah Engel Fund (1973)	Eleanor Levison Israel Fund (1976)
Laura Teller Ericsson Fund (1976)	Lucie Burgi Johnson Fund (1979)
Abbe Fessenden '62 Fund (1994)	Lily Murray Jones Fund (1950)
Margaret Jane Fischer Fund (1968)	The Kahn Fund (1994)
Fiske Fund (1895)	Mildred K. Kammerer Fund (1973)
Martha T. Fiske Fund (1911)	Peggy King Scholarship Fund (1986)
Edyth Fredericks Fund (1974)	Mirra Komarovsky Fund (1975)
Clara Lillian Froelich Fund (1979)	Lucile Wolf Koshland Fund (1980)
Ellen V. Futter '71 Fund (1994)	Elsie M. Kupfer Fund (1975)
Doris P. Gallert Fund (1970)	Margaret Irish Lamont Fund (1978)
Galway Fund (1912)	Augusta Larned Fund (1924)
Helen Jenkins Geer Fund (1940)	Marjorie Hermann Lawrence Fund (1965/67)
Cecile Meister Gilmore and Benjamin Gilmore Fund (1986)	Yves LeMay Fund (1982)
Anita Hyman Glick Fund (1968)	Harriett Mooney Levy Fund (1965)
Irma Alexander Goldfrank Fund (1919)	Joan Sperling Lewinson Fund (1955)
Sarah S. and Louis A. Goldman Fund (1992)	Judith Lewittes Fund (1957)
Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983)	Dora Mei and Tsiang Kwang Li Fund (1994)
Elsa Gottlieb Fund (1982)	Anne Elizabeth Lincoln Fund (1963)
Graham School Fund (1907)	Amy Loveman Fund (1956)
	<i>See Prizes, page 297.</i>
	Louise Grace Luby and James Luby Fund (1947)
	Barbara Scoville Maarschalk Fund (1977)

Frances E. and Harry W. Martin Fund (1986)	Caterina Ronzoni Fund (1986)
Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970)	Edith Lowenstein Rossbach Memorial Fund (1959)
Cecile Lehman Mayer Fund (1962)	Carrie W. and Corine A. Rowe Fund (1979)
Leo Mayer Fund (1972)	Helena Rubinstein Foundation Fund (1992)
Hugh and Mary McCorry Fund (1993)	Edna Heller Sachs Fund (1955)
Adele Duncan McKeown Fund (1973)	May and Edgar Salinger Fund (1971) <i>In memory of Isaac and Eugenie Herrmann.</i>
Eloise F. McLennan Fund (1987)	Eleanor Butler Sanders Fund (1922)
Memorial Fund (1954)	Anna M. Sandham Fund (1922)
Cheryl and Philip Milstein Fund (1992)	Terry Rose Saunders '64 Fund (1992)
Dorothy E. Miner Fund (1977)	Katherine D. Schlayer Fund (1975)
Gladys Bateman Mitchell Fund (1980)	Schmitt-Kanefent Fund (1931)
William Moir Fund (1912)	Scholarship Fund (1901)
Rosalis Van Der Stücken Montgomery '35 Fund (1994)	Katherine Flint Shadek Fund (1961)
Gulli Lindh Muller Fund (1972)	Dorothy Nolan Sherman Fund (1983)
Caroline Church Murray Fund (1918)	Marion Berenson Shinn '45 and Richard R. Shinn Fund (1992)
Annette Florence Nathan Fund (1947)	Anne Victoria and Elizabeth Jane Shutkin Fund (1983)
Dora R. Nevins Fund (1969)	Doris Silbert Fund (1987)
Ann Whitney Olin Fund (1982)	Max Sloman and Jane Stanley Fund (1971)
Lucretia Perry Osborn Fund (1940)	Emily James Smith Fund (1899)
Dorothy Brockway Osborne Fund (1976)	Frances M. Smith Fund (1974)
Elizabeth Palmer Fund (1972)	Fred Curtis Smith Memorial Fund (1955)
Jean T. Palmer Fund (1969)	George W. Smith Fund (1906)
Josephine Bay Paul Fund (1978)	Sylvia W. Stark Fund (1981)
Carl and Lily Pforzheimer Foundation Fund (1993)	C. V. Starr Fund (1983)
Lucy Powell Fund (1971)	Claire Wander Stein Financial Aid Fund (1981)
M. Gladys Quinby Fund (1961)	Edna Phillips Stern Fund (1952)
Jacqueline Zelniker Radin Fund (1975)	Eleanor Holden Stoddard Fund (1977)
Eleanor Kaiser Reinheimer Fund (1976)	Isabel Greenbaum Stone Fund (1957)
Eva Rich Fund (1968)	Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969)
Peter C. Ritchie, Jr., Fund (1937)	Solon E. Summerfield Foundation Fund (1960)
Gayle F. Robinson '75 Fund (1993)	
Margaret Miller Rogers Fund (1976)	

SCHOLARSHIP FUNDS

Anna Stechel Sussner Fund (1993)

Thompson Fund (1993)

Thrift Shop Scholarships (1938)

From the Barnard Scholarship Unit of Everybody's Thrift Shop.

Miriam Tobias Fund (1980)

Veltin School Fund (1905)

Florence Meyer Waldo Fund (1980)

Alma F. Wallach Fund (1951)

Dorothy Calman Wallerstein Fund (1976)

Ella Weed Fund (1895)

Hymen and Helen Werner Fund (1964)

Fern Yates Memorial Fund (1980)

RESTRICTED

Patricia Leigh (Pat) Abbott Fund (1981)

For a student or students who have overcome serious physical difficulties.

Mary Ann Adams & Lily Frances Adams Fund (1991)

Preferably for a student majoring in history or another social science.

Mary Gertrude Edson Aldrich Fund (1916)

To a senior who has shown high moral qualities.

Norma Ketay Asnes '57 Fund (1993)

Preferably for African-American students.

Axe-Houghton Fund (1977)

For juniors or seniors with average of at least 3.0.

Bertha R. Badanes Fund (1966)

For children of New York City school teachers preferably from Brooklyn.

Barnard College Club of Brooklyn Fund (1944)

For a student from Brooklyn.

Barnard College Club of Greater

San Francisco Fund (1986)

For a student preferably from the San Francisco Bay area.

Barnard College Club of Houston Fund (1969)

For students from the Houston area.

Barnard College Club of New York Fund (1952)

For a student from outside New York City.

Barnard-in-Westchester Fund (1962)

Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916)

Preferably for nominees of the school.

Willina Barrick Memorial Fund (1936)

By the College Club of Jersey City for a graduate of a Jersey City secondary school.

The Annette Kar Baxter Memorial Fund (1984)

In memory of Annette Kar Baxter, '47, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

Irving Berlin Fund (1950)

For one or more Barnard students of foreign-born parentage.

Edward L. Bernays Continuum Prize and Scholarship Fund (1992)

For the winner of the Edward L. Bernays Prize (see page 297), or, if that student is not in need of financial aid, to the most outstanding writer among English majors.

June Rossbach Bingham Fund (1976)

For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

Ida Blair Memorial Fund (1937)

Preferably for a student in political science.

Niña Thomas Bradbury '42 Fund (1992)

Preferably for a student interested in teaching.

Thornton F. Bradshaw Fund (1986)

For transfer students.

Naomi Levin Breman '71 Fund (1992)

Preferably for students majoring in history or economics.

Alice Marie-Louise Brett Fund (1930)

For a senior specializing in French.

William Tenney Brewster and Anna

Richards Brewster Fund (1961)

To be awarded in amounts not less than \$1,000 preferably.

Anne Brown Endowment Fund (1939)

For students from New York City.

Burbank Fund (1992)

For one or more worthy students pursuing the study of history, literature, or music of the United States, or any combination thereof.

Ruth L. Byram '24 Fund (1991)

Preferably for students interested in teaching or majoring in math.

Carpentier Residence Fund (1919)

For students who are not residents of New York City or its vicinity.

Alice Corneille Cordoza '36 Fund (1994)

Preferably for students in the Fine Arts or Music.

Therese Cassel Fund (1973)

For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

Lois and James Champy Fund (1992)

Preferably for African-American students who demonstrate special need as well as ability.

Eliza Taylor Chisholm Memorial Fund (1901)

Preference to nominees of the Alumnae Association of Miss Chisholm's School.

C.I.T. Financial Corporation Fund (1979)

In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.

Class of 1919 Decennial Fund (1929)

For a resident student.

Class of 1926 Emergency Student Aid Fund (1976)

For emergency financial aid.

Class of 1949 Fund (1974)

For an incoming first-year student.

Mrs. Henry Clarke Coe Fund (1910)

By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

Charles A. Dana Fund (1982)

For students designated Dana Scholars, as specified in the guiding principles for the program.

Babette Deutsch Fund (1978)

For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

Marie Ward Doty Fund (1981)

Preferably to daughters of parents in law enforcement or related fields.

Augusta Salik Dublin Fund (1960)

For a student in a field of social welfare.

Elizabeth M. Edersheim '85 Memorial Fund (1992)

For juniors majoring in mathematics or English, preferably mathematics, to be renewed for an additional year if academic standards are maintained.

Educational and Cultural Trust Fund of the Electrical Industry (1951)

For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

May Parker Eggleston Fund (1972)

For a science student, preferably one planning to attend medical school.

Christine H. Eide Memorial Fund (1968)

For juniors majoring in anthropology or English.

Eleanor Thomas Elliott Fund (1973)

For winners of the Eleanor T. Elliott Prize (see page 297) and/or for other deserving students.

Gladys Renshaw Esterbrook Fund (1958)

Preferably for English or French majors.

Marion Pratt Fouquet Fund (1961)

Preferably for older students.

Gentile Family Fund (1992)

Preferably for inner-city students.

German Fund (1950)

For a German major. See also Prizes, page 300.

Virginia C. Gildersleeve Fund (1968)

For a major in the humanities, preferably English.

Virginia C. Gildersleeve International Fund (1937)

For a foreign student.

Elizabeth Hughes Gossett Scholars (1981)

For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

Julius Held Fund (1970)

For students majoring in Art History.

Janet Williams Helman '56 Fund (1993)

Preferably for minority students from Chicago, Illinois.

Dominique Henrey Memorial Fund (1990)

For a first-year student who has an interest in creative writing.

SCHOLARSHIP FUNDS

Emma Hertzog Fund (1904)
For a graduate of Yonkers High School.

Alena Wels Hirschorn '58 Fund (1986)
For the winner of the Alena Wels Hirschorn essay prize, or to the most outstanding economics major.

Marion Alice Hoey Fund (1944)
Preferably for a student in Greek and Latin.

Hannah and Henry Hofheimer Fund (1975)
For a freshman.

Holland Dames Fund (1915)
For a descendant of early Dutch settlers.

Lillia Babbitt Hyde Fund (1953)
For premedical students.

Charlotte Louise Jackson Fund (1928)
For a graduate of Yonkers High School.

Mary E. Larkin Joline Fund (1927)
For a student specializing in music.

Werner Josten Fund (1955)
Preferably for a student in music.

Helene L. Kaplan '53 Fund (1993)
Preferably for students in the metropolitan New York area.

Jessie Kaufmann Fund (1902)
For a student who has no relative able to offer financial assistance.

Kimball Fund (1938)
For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911)
For a sophomore of exceptionally high standing.

John A. Kouwenhoven Fund (1991)
Preferably for an English major.

Henry C. Kuever and Frederick W.A. Fuller Fund (1981)
Preferably for a student majoring in music, or in Greek or mathematics.

Wei-Ven Yao Kung Fund (1992)
Preferably for students of Asian background.

Dr. Ann G. Kuttner Fund (1969)
Preferably to premedical students.

Eugene M. Lang Fund (1988)
Preferably for minority students.

Marjorie de Loynes Lange '50 Fund (1993)
Preferably for a student studying music.

Hortense Owen Lazar '26 Fund (1991)
Preferably for students who have demonstrated both exceptional promise in the field of creative writing and a practical concern for others.

Judith M. Lebensold Fund (1993)
Preferably for students majoring in political science or planning a career in law.

Ethel Stone LeFrak Prize and Scholarship (1986)
To a student for excellence in a field of the arts, the balance as a grant to the prize recipient or a meritorious alternate.

Toby Levy '72 Architecture Fund (1993)
For students studying architecture.

Bernard Liberman Fund (1979)
For premedical students.

Carolina Marcial-Dorado Fund (1953)
For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad, or to a student who is majoring in Spanish.

Raphael Marino Fund (1977)
For a student proficient in Italian language, literature, art, or culture.

Eugene F. and Minnie Gouger McGowan Fund (1955)
Preferably for students from Mecklenburg County, North Carolina.

Fannie Moulton McLane Fund (1961)
For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906)
For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986)
Preferably for students majoring in writing, music, dance, or drama.

Alice Miller Memorial Scholarship Fund (1989)
Preference to pre-medical students.

Ferry Starr Morgan Fund (1959)
For a student majoring in music or philosophy.

Lawrence Morris Fund (1968)
Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser Fund (1983)

For seniors majoring in sociology.

Lucy Moses Fund (1975)

For a premedical student. See Prizes, page 298.

Ann Newman Fund (1986)

For study abroad.

The New York Times Fund (1990)

For minority students.

Eileen O'Brien '48 Fund (1994)

Preferably for a student studying in the arts.

Julia Fisher Papper Fund (1974)

For a senior of superior academic standing and high motivation.

Mary Barstow Pope Fund (1913)

For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934)

By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899)

Three are restricted to students from the City of New York, eight are for resident students.

Basil Rauch Memorial Fund (1992)

For students majoring in history or in political science with an interest in foreign affairs.

Gladys A. Reichard Anthropology Scholarship Fund (1992)

For students majoring in anthropology or, if there are no such eligible students, for students majoring in other social sciences.

Marie Reimer Fund (1953)

See Prizes, page 298.

Amelia Agostini de del Rio Fund (1955)

For a student from Puerto Rico or a student who is majoring in Spanish.

Lesley Jane Rosen Memorial Fund (1975)

For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967)

For a premedical student.

Doris S. Rosenthal '35 Science and Math Fund (1993)

For students majoring in science or mathematics.

Doris Schloss Rosenthal Fund (1981)

For students majoring in courses in the Arts.

Joan Rosof Fund (1964)

For students from the State of New York.

Felix St. George Scholarship (1955)

For an incoming freshman studying physics, chemistry, or biology.

Dorothy K. Scheidell Fund (1965)

Preferably for pre-medical students.

Lillian Schoedler Fund (1967)

For students who show promise of civic leadership.

Margarete Schwabe Fund (1974)

For premedical students with outstanding ability and idealism.

Ruth Gould Scoppa '37 Fund (1985)

Preferably for a student majoring in English.

Henry Sharp Memorial Fund (1992)

For a student who has or will take one basic course in geology, geography, or environmental science.

Roslyn S. Silver Scholarship Program (1982)

For junior and senior students preparing for careers in medical research.

Clarice Ann Smith Fund (1973)

For students of literature and composition.

Marion Wesley Smith Fund (1978)

For students majoring in Anthropology.

Hilda Staber Fund (1967)

For foreign students.

Estella Raphael Steiner Fund (1972)

For a senior in Biological Sciences who plans to engage in research in that field.

Beatrice L. Stern Memorial Fund (1977)

For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.

Marion Levi Stern Fund (1977)

Preferably for students in the social sciences.

Simon and Elaine Strauss Fund (1981)

For disabled students.

Emma A. Tillotson Fund (1910)

For a sophomore of exceptionally high standing.

SCHOLARSHIP FUNDS

Clara Bittenwieser Unger Memorial Fund (1938)
For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

Helen Elizabeth Vosburgh Fund (1934)
Preference to a self-supporting student.

Mary Voyse Fund (1989).
For a student from Yonkers.

Walter A. Wagener Memorial Fund (1984)
For students majoring in a field of the arts.

Gertie Emily Gorman Webb Fund (1953)
For a nominee of the Department of History.

May Hessberg Weis Fund (1981)
For students in environmental ethics and conservation.

Esther Lensh Weisman Fund (1979)
Preferably for a student majoring in English.

Marian Churchill White Fund (1975)
For the winner of the Marian Churchill White Prize (see page 298 or an alternate with similar qualifications).

Allison Wier Fund (1977)
For students who are residents of Westchester County.

Martin Wong Fund (1993)
For a Barnard student studying in France.

Elsa P. Wunderlich Fund (1978)
For a German exchange student.

Richard P. Youtz Fund (1987)
For students in the Resumed Education Program.

Alma Gluck Zimbalist Fund (1940)
For students in political science.

Gertrude Bunker Zufall Fund (1987)
For a senior pre-medical student. See Prizes, page 298.

LOAN FUNDS

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as part of students' financial aid awards.

Associate Alumnae Student Loan Fund	Pauline Hirschfeld Loan Fund
Barnard College Club of Cleveland Loan Fund	Gertrude C. Hitchcock Loan Fund
Barnard College Loan Fund	Adelaide Le Ciercq Loan Fund
Ann Susan Becker Memorial Loan Fund	Swope Loan Fund
Thomas F. Clark Student Fund (1928)	Tudor Foundation Student Loan Fund
Marilyn Chin Loan Fund	

HONORS

The following awards, administered according to the provisions of their respective donors, were established to honor those who have shown exceptional distinction in their studies.

FELLOWSHIPS

Associate Alumnae of Barnard College Graduate Fellowship (1963)

For a graduating senior or graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship (1971)

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship (1930)

For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

Lillian Niederman Fellowship Award (1984)

By Dr. Miriam S. Harris in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship (1976)

For graduating seniors who show promise of distinction in such fields of graduate study in art as the faculty shall determine. Holders are to pursue studies preferably abroad at a college or university of approved standing.

Grace Potter Rice Fellowship (1935)

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

Alpha Zeta Club Graduate Scholarship (1936)

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

William Mason Scholarship (1928)

Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

GENERAL

Estelle M. Allison Prize (1937)

For excellence in literature.

Mary E. Allison Prize (1937)

For general excellence in scholarship.

Annette Kar Baxter Memorial Fund Prize (1984)

For juniors who have distinguished themselves in the study of some aspect of women's experience.

Frank Gilbert Bryson Prize (1931)

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Eleanor Thomas Elliott Prizes (1973)

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity, and good citizenship in the College.

Katherine Reeve Girard Prize (1964)

For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978)

For a graduating senior who will pursue a career in journalism.

Alena Wels Hirschorn Prize (1986)

For a senior majoring in economics, with preference for a student who has a strong interest in English literature and/or in pursuing a career in journalism.

Lucyle Hook Travel Grants (1987)

To promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986)

To a student with a disability, for active participation in the academic and extracurricular life of the College.

Ethel Stone LeFrak Prize (1986)

For excellence in a field of the arts.

Harry Salzman Internship Fund (1982)

An internship in Washington, D.C.

HONORS

BY ACADEMIC AREA

Schwimmer Prize (1986)

For an outstanding graduating senior in the humanities.

Bernice G. Segal Summer Research Internships (1986)

One or more internships for supervised research in the sciences during the summer.

Marian Churchill White Prize (1975)

For an outstanding sophomore who has participated actively in student affairs.

PRE-MEDICAL

Helen R. Downes Prize (1964)

For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize (1973)

For premedical students majoring in chemistry.

Lucy Moses Award (1975)

For a premedical student likely to provide service to the medically underserved.

Gertrude Bunger Zufall Award (1987)

For a premedical student entering her senior year.

ART HISTORY

Nancy Hoffman Prize (1983)

For students who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize (1969)

For promising seniors majoring in art history.

ASIAN-MIDDLE EASTERN CULTURES

Taraknath Das Foundation Prize in Asian and Middle Eastern Studies (Columbia University)

To a student of Barnard College, Columbia College, or the School of General Studies, for excellence in Asian and Middle Eastern Studies.

BIOLOGICAL SCIENCES

Maura Shannon Barrett Internships (1993).

In memory of Maura Shannon Barrett '83. For students well based in the humanities who will apply their scientific knowledge to biology and/or health problems.

Edna Henry Bennett Memorial Grants (1927)

For work at a biological laboratory offering summer courses.

Herbert Maule Richards Grants (1933)

For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Grants (1979)

For biological study or research.

Hermann Botanical Prize (1892)

For an undergraduate student proficient in biology.

Spiera Family Prize (1986)

For promise of excellence by a student majoring in biological sciences.

Constance Von Wahl Prize (1915)

For advanced work in biology.

CHEMISTRY

American Chemical Society's Division of Analytical Chemistry Award

For outstanding work in analytical chemistry.

American Chemical Society's Division of Polymer Chemistry Award

For outstanding work in organic chemistry.

American Institute of Chemists, New York Chapter Prize

For an outstanding student of chemistry.

CRC Press First-Year Chemistry Achievement Award

For outstanding achievement in first-year chemistry.

Marie Reimer Scholarship Fund Prize (1953)

Awarded at the end of the junior year to an outstanding major in chemistry.

ECONOMICS

American Statistical Association, New York Area Chapter Prize (1960)

For an outstanding student in statistics.

Alena Wels Hirschorn Prize (1986)

To a junior for the best essay on the subject of domestic or international economics.

Beth Niemi Memorial Prize (1981)

For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Prize (1949)

For superior work by an undergraduate major in economics.

Sylvia Kopald Selekman Prize (1960)

For the first-year student who is doing the best work in introductory economics.

EDUCATION**Stephanie Kossoff Prize (1972)**

For the student who has made the most noteworthy contribution or meaningful endeavor in childhood education.

ENGLISH**Edward L. Bernays Continuum Prize (1992)**

For the Barnard student judged to have written the best short piece, fiction or non-fiction.

Saint Agatha Muriel Bowden Memorial Prize (1971)

For superior proficiency in the study of Chaucer and medieval literature.

W. Cabell Greet Prize (1974)

For excellence in English.

William Haller Prize (1987)

For excellence in the study of English literature.

Amy Loveman Memorial Prize (1956)

For the best original poem by an undergraduate.

Lenore Marshall Barnard Prizes (1975)

For both poetry and prose of distinction.

Sidney Miner Poetry Prize (1962)

For the senior major who has shown distinction in the reading, writing, and study of poetry.

Peter S. Prescott Prize for Prose Writing (1992)

For a work of prose fiction which gives the greatest evidence of creative imagination and sustained ability.

Helen Prince Memorial Prize (1921)

For excellence in dramatic composition.

Stains-Berle Memorial Prize in Anglo-Saxon (1968)

For excellence in Anglo-Saxon language and literature.

Academy of American Poets Prize (Columbia University)

For the best poem or group of poems by a student.

Bunner Medal (Columbia University)

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Helene Searcy Puls Prize (1984)

For the best poem in an annual student competition.

Howard M. Teichmann Writing Prize (1986)

To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize (Columbia University)

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize (Columbia University)

To an undergraduate student of the University for the best original poem.

ENVIRONMENTAL SCIENCE**Lillian Berle Dare Prize (1974)**

For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize (1970)

For an outstanding student majoring in environmental science.

FRENCH**Helen Marie Carlson French Prize (1965)**

For the best composition in fourth-term French.

Isabelle de Wyzewa Prize (1972)

For the best composition in the French course, *Masterpieces of Literature from the Middle Ages to the Twentieth Century*.

Frederic G. Hoffherr French Prize (1961)

To a student in intermediate French for excellence in oral French.

Linda Joan Israel Prize in French (1977)

To a French major, preferably a senior, for work done in *Advanced Oral French* or *Advanced Translation into French*.

Eleanor Keller Prizes (1968)

For juniors in French literature and seniors in French culture.

HONORS

Rosemary Thomas Prize in French (1966)

For evidence of a special sensitivity and awareness in the study of French poetic literature.

GERMAN

Dean Prize in German (1952)

For the senior who has throughout college done the best work in German language and literature.

German Scholarship Fund Prize (1950)

Awarded at the end of the junior year to an outstanding major in German.

Louise Stabenau Prize in German (1988)

Awarded to a junior or senior major for excellence in oral German.

GREEK AND LATIN

John Day Memorial Prize (1986)

For a high-ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics (Columbia University)

For excellence in sight translation of passages of Greek and Latin.

Benjamin F. Romaine Prize (Columbia University)

For proficiency in Greek language and literature.

Jean Willard Tatlock Memorial Prize (1917)

For the undergraduate student most proficient in Latin.

HISTORY

Eugene H. Byrne History Prize (1960)

For superior work by a history major.

Early American History Award (1993).

For excellence in early American history.

Ellen Davis Goldwater History Prize (1982)

For superior work by a history major.

ITALIAN

Bettina Buonocore Salvo Prize (1966)

For a student of Italian.

Speranza Italian Prize (1911)

For excellence in Italian.

MATHEMATICS

Margaret Kenney Jensen Prize (1973)

To first-year students, sophomores, and juniors for excellence in mathematics.

Kohn Mathematical Prize (1892)

To a senior for excellence in mathematics.

MUSIC

Robert Emmett Dolan Prize (Columbia University)

To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize (1986)

For a graduating senior whose creative writing in music shows promise of distinction.

PHILOSOPHY

William Pepperell Montague Prize (1949)

For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize (1986)

For promise of excellence by a student majoring in philosophy.

PHYSICAL EDUCATION

Margaret Holland Bowl (1974)

For excellence in leadership and participation in recreation and athletics.

Marion R. Philips Scholar-Athlete Award (1981)

To the senior female winner of a varsity letter who has achieved the highest cumulative academic average and who has participated on a Columbia University team for at least two years.

Seven Sisters Senior Scholar-Athlete Award (1988)

For scholarly achievement and participation in Seven Sisters Competition.

Tina Steck Award (1980)

For the most outstanding member of the Swimming and Diving Team.

PHYSICS

Henry A. Boorse Prize (1974)

To a graduating Barnard senior, preferably a major in the department, whose record in physics shows promise of distinction in a scientific career.

POLITICAL SCIENCE

Phoebe Morrison Memorial Prize (1969)

For a political science major planning to attend law school.

James Gordon Bennett Prize (Columbia University)

For the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States.

Caroline Phelps Stokes Prize (Columbia University)

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

PSYCHOLOGY

American Statistical Association, New York Area Chapter Prize (1960)

See Economics listing.

Ida Markewich Lawrence Prize (1982)

For the best paper in psychology, preferably child psychology, by a major.

RELIGION

Samuel Dornfield Prize (1979)

For work in Old Testament or Ancient Near Eastern Studies that reflects special sensitivity and academic excellence.

Caroline Gallup Reed Prize (1916)

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

RUSSIAN

Alice Levin Sokolik Prize in Russian (1976)

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

SPANISH

John Bornemann Prize in Spanish (1976)

For superior performance in the first- or second-year language courses.

Eugene Raskin Prize

For the best essay in fourth-term Spanish.

Spanish Prize (1959)

For a Spanish major who has done the most distinguished work in Spanish language and literature.

Ucelay Recitation Prize

For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize (Seven Colleges)

For the best original essay written in Spanish by a senior whose native language is not Spanish.

THEATRE

Kenneth Janes Prize in Theatre (1987)

For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

URBAN AFFAIRS

Suzanne Farkas Urban Affairs Prize (1972)

For the best essay in Urban Affairs.

WOMEN'S STUDIES

Bessie Ehrlich Memorial Prize (1980)

For an oral history project concerning a female relative of a preceding generation, in conjunction with the Women's Studies Department.

Jane S. Gould Prize (1982)

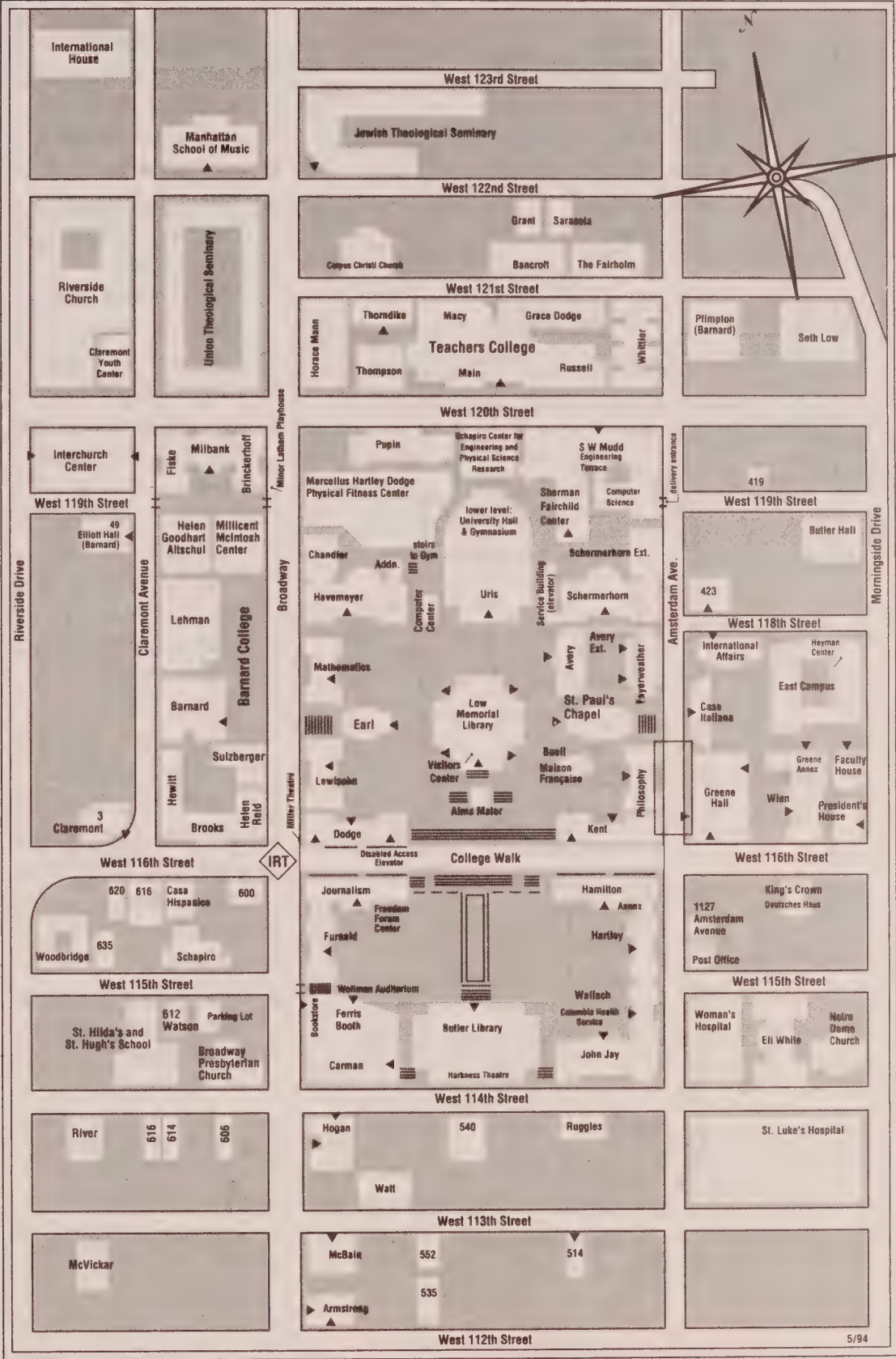
For an outstanding senior essay by a Women's Studies major.

	1889	1899	1909	1919	1929	1934	1944	1954	1964	1974	1984	1989	1992	1993
	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	1890	1900	1910	1920	1930	1935	1945	1955	1965	1975	1985	1990	1993	1994
Undergraduates, Regular														
Seniors	—	40	62	87	227	181	208	245	355	572	559	538	570	552
Juniors	—	40	122	190	237	220	314	340	414	554	563	527	531	567
Sophomores	—	37	109	193	247	226	314	317	391	488	512	552	548	514
First-year Students	14	54	188	224	311	267	324	304	415	437	531	487	516	550
Unclassified Students	—	—	—	—	54	103	56	1	8	—	—	—	—	—
	14	171	481	694	1076	997	1216	1207	1583	2051	2165	2104	2165	2183
Special Students														
Matriculated	—	21	24	39	—	—	—	—	—	—	—	—	—	—
Non-matriculated	—	—	30	22	28	29	21	20	19	33	22	18	16	14
Departmental (1889-1896)	22	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915)	—	41	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	28	29	21	20	19	33	22	18	16	14
Graduate Students														
(1890-1900)	—	82	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	1104	1026	1237	1227	1602	2084	2187	2122	2181	2197
Degrees Conferred														
A.B.	—	39	88	139	247	221	270	258	367	497	612	541	529	522
B.S. (1909-1918)	—	18	2	5	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900)	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

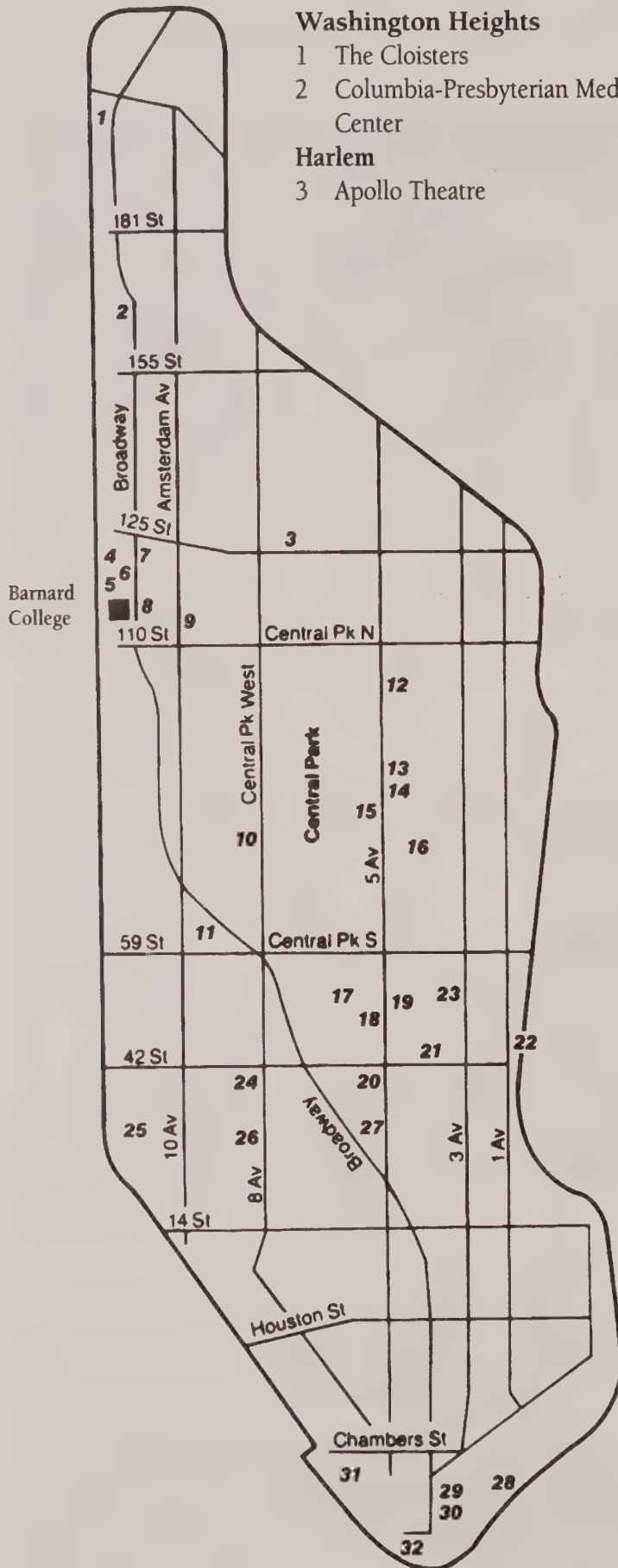
Total Bachelor's Degrees conferred 1893-1993: A.B., 27,952, B.S., 77
These figures represent registration in the Autumn Term.

BARNARD COLLEGE

COLUMBIA UNIVERSITY THE MORRINGSIDE CAMPUS & ENVIRONS



NEW YORK CITY



Washington Heights

- 1 The Cloisters
- 2 Columbia-Presbyterian Medical Center

Harlem

- 3 Apollo Theatre

Morningside Heights

- 4 Manhattan School of Music
- 5 Riverside Church
- 6 Union Theological Seminary
- 7 Jewish Theological Seminary
- 8 Columbia University
- 9 Cathedral of St. John the Divine

Upper West Side

- 10 Museum of Natural History
- 11 Lincoln Center

Upper East Side

- 12 Museum of the City of New York
- 13 Cooper Hewitt Museum
- 14 Guggenheim Museum
- 15 Metropolitan Museum of Art
- 16 The Whitney Museum

Midtown

- 17 Museum of Modern Art
- 18 Rockefeller Center
- 19 St. Patrick's Cathedral
- 20 N.Y. Public Library
- 21 Grand Central Station
- 22 United Nations
- 23 Citicorp Center
- 24 Port Authority Bus Terminal
- 25 Jacob Javits Convention Center
- 26 Pennsylvania (Train) Station and Madison Square Garden
- 27 Empire State Building

Wall Street Area

- 28 South Street Seaport
- 29 Wall Street
- 30 New York Stock Exchange
- 31 World Trade Center
- 32 Battery Park



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